

SEQUENCE LISTING

<110> Pharmacia Corporation

Bourner, Maureen J.

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gcggaattc	3969

<210> 36

<211> 1833

<212> DNA

<213> homo sapiens

<400> 36

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gccaaaggtg ctccgccgct aaggaacatg gcgaagggtg agcaggctct gagcctcgag	180
ccgcagcacg agctcaaatt ccgaggtccc ttcaccgatg ttgtcaccac caacctaaag	240
cttggaacc cgacagaccg aaatgtgtgt ttaaggtga agactacagc accacgtagg	300
tactgtgtga ggcccaacag cggaatcatc gatgcagggg cctcaattaa tgtatctgga	360
agaagatgga ctgcggatga ggaagacagt gcagagcaac agccccattt cagcattagc	420
cccaactggg aaggaagaag gccttagcac ccggctcttg gctctggtgg ttttgttctt	480
tatcgttggt gtaattattg ggaagattgc cttgtagagg tagcatgcac aggatggtaa	540
attggattgg tggatccacc atatcatggg atttaaattt atcataacca tgtgtaaaaa	600

gaaattaatg tatgatgaca tctcacaggt cttgccttta aattaccctt ccctgcacac	660
acatacacag atacacacac acaaataata tgtaacgata ttttagaaag ttaaaaatgt	720
atagtaactg attgaggggg aaaagaatga tctttattaa tgacaaggga aaccatgagt	780
aatgccacaa tggcatattg taaatgtcat tttaaacatt ggtaggcctt ggtacatgat	840
gctggattac ctctcttaaa atgacacctt tctcgcctg ttgggtgctgg cccttgggga	900
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gcaagggaag agagaaactc ttcagcgaat ccttctagta ctagttaga gtttgactgt	1740
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<210> 37

<211> 3213

<212> DNA

<213> homo sapiens

<400> 37

agagactcaa gatgattccc tttttaccca tgttttctct actattgctg cttattgtta	60
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gggaccaagg cccaaatgtc tgtgcccttc aacagatttt gggcaccaaa aagaaatact	180

tcagcacttg taagaactgg tataaaaagt ccatctgtgg acagaaaacg actgttttat	240
atgaatgttg ccctgggtat atgagaatgg aaggaatgaa aggctgcca gcagttttgc	300
ccattgacca tgtttatggc actctgggca tctgtgggagc caccacaacg cagcgtatt	360
ctgacgcctc aaaactgagg gaggagatcg agggaaagg atccttcact tactttgcac	420
cgagtaatga ggcttgggac aacttggatt ctgatatccg tagaggtttg gagagcaacg	480
tgaatgttga attactgaat gctttacata gtcacatgat taataagaga atgttgacca	540
aggacttaaa aaatggcatg attattcctt caatgtataa caatttgggg cttttcatta	600
accattatcc taatgggggt gtcactgtta attgtgctcg aatcatccat gggaaccaga	660
ttgcaacaaa tgggtgttgc catgtcattg accgtgtgct tacacaaatt ggtacctcaa	720
ttcaagactt cattgaagca gaagatgacc tttcatcttt tagagcagct gccatcacat	780
cggacatatt ggaggccctt ggaagagacg gtcacttcac actctttgct cccaccaatg	840
aggcttttga gaaacttcca cgagggtgcc tagaaagggt catgggagac aaagtggctt	900
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gaggagcagt ctttgagacg ctggaaggaa atacaattga gataggatgt gacggtgaca	1020
gtataacagt aaatggaatc aaaatgggtga acaaaaagga tattgtgaca aataatggtg	1080
tgatccattt gattgatcag gtcctaattc ctgattctgc caaacaagtt attgagctgg	1140
ctggaaaaca gcaaacacc ttcacggatc ttgtggcca attaggcttg gcatctgctc	1200
tgaggccaga tggagaatac actttgctgg cacctgtgaa taatgcattt tctgatgata	1260
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aagttggcct taatgagctt tacaacgggc aaatactgga aaccatcgga ggcaaacagc	1380
tcagagtctt cgtatatcgt acagctgtct gcattgaaaa ttcatgcatg gagaaaggga	1440
gtaagcaagg gagaaacggt gcgattcaca tattccgcga gatcatcaag ccagcagaga	1500
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aagtaaatga tacacttctg gtgaatgaat tgaaatcaaa agaactctgac atcatgacaa	1860
caaatgggtg aattcatggt gtagataaac tcctctatcc agcagacaca cctgttgga	1920
atgatcaact gctggaaata cttaataaat taatcaaata catccaaatt aagtttgttc	1980
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atttctatat	gagtgggttt	actggtaa	tatgttattt	tttacaacta	attttgtact	3060
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<210> 38

<211> 1412

<212> DNA

<213> homo sapiens

<400> 38

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accactcgct	ccaccttctc	caccaactac	cggtcacctg	gctctgtcca	ggcgcccagc	120
tacggcgccc	ggccggtcag	cagcgcggcc	agcgtctatg	caggcgctgg	gggctctggt	180
tcccgatct	ccgtgtccc	ctccaccagc	ttcagggg	gcgctggggtc	cgggggcctg	240

gccaccgga tagccggggg tctggcagga atgggaggca tccagaacga gaaggagacc 300
atgcaaagcc tgaacgaccg cctggcctct tacctggaca gaggtaggag cctggagacc 360
gagaaccgga ggctggagag caaaatccgg gagcacttgg agaagaaggg accccaggtc 420
agagactgga gccattactt caagatcatc gaggacctga gggctcagat cttcgcaaat 480
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cagtccttgg agatcgacct ggactccatg agaaatctga aggccagctt ggagaacagc 1020
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gacaccaaag ttctgaggca ttaagccagc agaagcaggg taccctttgg ggagcaggag 1380
gcgaataaaa agttcagagt tcattggatg tc 1412

<210> 39

<211> 829

<212> PRT

<213> homo sapiens

<400> 39

Met Gly Leu Pro Arg Gly Pro Leu Ala Ser Leu Leu Leu Leu Gln Val
1 5 10 15

Cys Trp Leu Gln Cys Ala Ala Ser Glu Pro Cys Arg Ala Val Phe Arg
20 25 30

Glu Ala Glu Val Thr Leu Glu Ala Gly Gly Ala Glu Gln Glu Pro Gly
35 40 45

Gln Ala Leu Gly Lys Val Phe Met Gly Cys Pro Gly Gln Glu Pro Ala
50 55 60

Leu Phe Ser Thr Asp Asn Asp Asp Phe Thr Val Arg Asn Gly Glu Thr
65 70 75 80

Val Gln Glu Arg Arg Ser Leu Lys Glu Arg Asn Pro Leu Lys Ile Phe
85 90 95

Pro Ser Lys Arg Ile Leu Arg Arg His Lys Arg Asp Trp Val Val Ala
100 105 110

Pro Ile Ser Val Pro Glu Asn Gly Lys Gly Pro Phe Pro Gln Arg Leu
115 120 125

Asn Gln Leu Lys Ser Asn Lys Asp Arg Asp Thr Lys Ile Phe Tyr Ser
130 135 140

Ile Thr Gly Pro Gly Ala Asp Ser Pro Pro Glu Gly Val Phe Ala Val
145 150 155 160

Glu Lys Glu Thr Gly Trp Leu Leu Leu Asn Lys Pro Leu Asp Arg Glu
165 170 175

Glu Ile Ala Lys Tyr Glu Leu Phe Gly His Ala Val Ser Glu Asn Gly
180 185 190

Ala Ser Val Glu Asp Pro Met Asn Ile Ser Ile Ile Val Thr Asp Gln
195 200 205

Asn Asp His Lys Pro Lys Phe Thr Gln Asp Thr Phe Arg Gly Ser Val
210 215 220

Leu Glu Gly Val Leu Pro Gly Thr Ser Val Met Gln Val Thr Ala Thr
225 230 235 240

Asp Glu Asp Asp Ala Ile Tyr Thr Tyr Asn Gly Val Val Ala Tyr Ser
245 250 255

Ile His Ser Gln Glu Pro Lys Asp Pro His Asp Leu Met Phe Thr Ile
260 265 270

His Arg Ser Thr Gly Thr Ile Ser Val Ile Ser Ser Gly Leu Asp Arg

275

280

285

Glu Lys Val Pro Glu Tyr Thr Leu Thr Ile Gln Ala Thr Asp Met Asp
290 295 300

Gly Asp Gly Ser Thr Thr Thr Ala Val Ala Val Val Glu Ile Leu Asp
305 310 315 320

Ala Asn Asp Asn Ala Pro Met Phe Asp Pro Gln Lys Tyr Glu Ala His
325 330 335

Val Pro Glu Asn Ala Val Gly His Glu Val Gln Arg Leu Thr Val Thr
340 345 350

Asp Leu Asp Ala Pro Asn Ser Pro Ala Trp Arg Ala Thr Tyr Leu Ile
(355 360 365

Met Gly Gly Asp Asp Gly Asp His Phe Thr Ile Thr Thr His Pro Glu
370 375 380

Ser Asn Gln Gly Ile Leu Thr Thr Arg Lys Gly Leu Asp Phe Glu Ala
385 390 395 400

Lys Asn Gln His Thr Leu Tyr Val Glu Val Thr Asn Glu Ala Pro Phe
405 410 415

Val Leu Lys Leu Pro Thr Ser Thr Ala Thr Ile Val Val His Val Glu
420 425 430

Asp Val Asn Glu Ala Pro Val Phe Val Pro Pro Ser Lys Val Val Glu
435 440 445

Val Gln Glu Gly Ile Pro Thr Gly Glu Pro Val Cys Val Tyr Thr Ala
450 455 460

Glu Asp Pro Asp Lys Glu Asn Gln Lys Ile Ser Tyr Arg Ile Leu Arg
465 470 475 480

Asp Pro Ala Gly Trp Leu Ala Met Asp Pro Asp Ser Gly Gln Val Thr
485 490 495

Ala Val Gly Thr Leu Asp Arg Glu Asp Glu Gln Phe Val Arg Asn Asn
500 505 510

Ile Tyr Glu Val Met Val Leu Ala Met Asp Asn Gly Ser Pro Pro Thr
515 520 525

Thr Gly Thr Gly Thr Leu Leu Leu Thr Leu Ile Asp Val Asn Asp His
 530 535 540

Gly Pro Val Pro Glu Pro Arg Gln Ile Thr Ile Cys Asn Gln Ser Pro
 545 550 555 560

Val Arg His Val Leu Asn Ile Thr Asp Lys Asp Leu Ser Pro His Thr
 565 570 575

Ser Pro Phe Gln Ala Gln Leu Thr Asp Asp Ser Asp Ile Tyr Trp Thr
 580 585 590

Ala Glu Val Asn Glu Glu Gly Asp Thr Val Val Leu Ser Leu Lys Lys
 595 600 605

Phe Leu Lys Gln Asp Thr Tyr Asp Val His Leu Ser Leu Ser Asp His
 610 615 620

Gly Asn Lys Glu Gln Leu Thr Val Ile Arg Ala Thr Val Cys Asp Cys
 625 630 635 640

His Gly His Val Glu Thr Cys Pro Gly Pro Trp Lys Gly Gly Phe Ile
 645 650 655

Leu Pro Val Leu Gly Ala Val Leu Ala Leu Leu Phe Leu Leu Val
 660 665 670

Leu Leu Leu Leu Val Arg Lys Lys Arg Lys Ile Lys Glu Pro Leu Leu
 675 680 685

Leu Pro Glu Asp Asp Thr Arg Asp Asn Val Phe Tyr Tyr Gly Glu Glu
 690 695 700

Gly Gly Gly Glu Glu Asp Gln Asp Tyr Asp Ile Thr Gln Leu His Arg
 705 710 715 720

Gly Leu Glu Ala Arg Pro Glu Val Val Leu Arg Asn Asp Val Ala Pro
 725 730 735

Thr Ile Ile Pro Thr Pro Met Tyr Arg Pro Arg Pro Ala Asn Pro Asp
 740 745 750

Glu Ile Gly Asn Phe Ile Ile Glu Asn Leu Lys Ala Ala Asn Thr Asp
 755 760 765

Pro Thr Ala Pro Pro Tyr Asp Thr Leu Leu Val Phe Asp Tyr Glu Gly
 770 775 780

Ser Gly Ser Asp Ala Ala Ser Leu Ser Ser Leu Thr Ser Ser Ala Ser
 785 790 795 800

Asp Gln Asp Gln Asp Tyr Asp Tyr Leu Asn Glu Trp Gly Ser Arg Phe
 805 810 815

Lys Lys Leu Ala Asp Met Tyr Gly Gly Gly Glu Asp Asp
 820 825

<210> 40

<211> 1400

<212> PRT

<213> homo sapiens

<400> 40

Met Glu Leu Leu Pro Pro Leu Pro Gln Ser Phe Leu Leu Leu Leu Leu
 1 5 10 15

Leu Pro Ala Lys Pro Ala Ala Gly Glu Asp Trp Gln Cys Pro Arg Thr
 20 25 30

Pro Tyr Ala Ala Ser Arg Asp Phe Asp Val Lys Tyr Val Val Pro Ser
 35 40 45

Phe Ser Ala Gly Gly Leu Val Gln Ala Met Val Thr Tyr Glu Gly Asp
 50 55 60

Arg Asn Glu Ser Ala Val Phe Val Ala Ile Arg Asn Arg Leu His Val
 65 70 75 80

Leu Gly Pro Asp Leu Lys Ser Val Gln Ser Leu Ala Thr Gly Pro Ala
 85 90 95

Gly Asp Pro Gly Cys Gln Thr Cys Ala Ala Cys Gly Pro Gly Pro His
 100 105 110

Gly Pro Pro Gly Asp Thr Asp Thr Lys Val Leu Val Leu Asp Pro Ala
 115 120 125

Leu Pro Ala Leu Val Ser Cys Gly Ser Ser Leu Gln Gly Arg Cys Phe
 130 135 140

Leu His Asp Leu Glu Pro Gln Gly Thr Ala Val His Leu Ala Ala Pro
 145 150 155 160

Ala Cys Leu Phe Ser Ala His His Asn Arg Pro Asp Asp Cys Pro Asp
 165 170 175

Cys Val Ala Ser Pro Leu Gly Thr Arg Val Thr Val Val Glu Gln Gly
 180 185 190

Gln Ala Ser Tyr Phe Tyr Val Ala Ser Ser Leu Asp Ala Ala Val Ala
 195 200 205

Gly Ser Phe Ser Pro Arg Ser Val Ser Ile Arg Arg Leu Lys Ala Asp
 210 215 220

Ala Ser Gly Phe Ala Pro Gly Phe Val Ala Leu Ser Val Leu Pro Lys
 225 230 235 240

His Leu Val Ser Tyr Ser Ile Glu Tyr Val His Ser Phe His Thr Gly
 245 250 255

Ala Phe Val Tyr Phe Leu Thr Val Gln Pro Ala Ser Val Thr Asp, Asp
 260 265 270

Pro Ser Ala Leu His Thr Arg Leu Ala Arg Leu Ser Ala Thr Glu Pro
 275 280 285

Glu Leu Gly Asp Tyr Arg Glu Leu Val Leu Asp Cys Arg Phe Ala Pro
 290 295 300

Lys Arg Arg Arg Arg Gly Ala Pro Glu Gly Gly Gln Pro Tyr Pro Val
 305 310 315 320

Leu Gln Val Ala His Ser Ala Pro Val Gly Ala Gln Leu Ala Thr Glu
 325 330 335

Leu Ser Ile Ala Glu Gly Gln Glu Val Leu Phe Gly Val Phe Val Thr
 340 345 350

Gly Lys Asp Gly Gly Pro Gly Val Gly Pro Asn Ser Val Val Cys Ala
 355 360 365

Phe Pro Ile Asp Leu Leu Asp Thr Leu Ile Asp Glu Gly Val Glu Arg

370

375

380

Cys Cys Glu Ser Pro Val His Pro Gly Leu Arg Arg Gly Leu Asp Phe
 385 390 395 400

Phe Gln Ser Pro Ser Phe Cys Pro Asn Pro Pro Gly Leu Glu Ala Leu
 405 410 415

Ser Pro Asn Thr Ser Cys Arg His Phe Pro Leu Leu Val Ser Ser Ser
 420 425 430

Phe Ser Arg Val Asp Leu Phe Asn Gly Leu Leu Gly Pro Val Gln Val
 435 440 445

Thr Ala Leu Tyr Val Thr Arg Leu Asp Asn Val Thr Val Ala His Met
 450 455 460

Gly Thr Met Asp Gly Arg Ile Leu Gln Val Glu Leu Val Arg Ser Leu
 465 470 475 480

Asn Tyr Leu Leu Tyr Val Ser Asn Phe Ser Leu Gly Asp Ser Gly Gln
 485 490 495

Pro Val Gln Arg Asp Val Ser Arg Leu Gly Asp His Leu Leu Phe Ala
 500 505 510

Ser Gly Asp Gln Val Phe Gln Val Pro Ile Arg Gly Pro Gly Cys Arg
 515 520 525

His Phe Leu Thr Cys Gly Arg Cys Leu Arg Ala Trp His Phe Met Gly
 530 535 540

Cys Gly Trp Cys Gly Asn Met Cys Gly Gln Gln Lys Glu Cys Pro Gly
 545 550 555 560

Ser Trp Gln Gln Asp His Cys Pro Pro Lys Leu Thr Glu Phe His Pro
 565 570 575

His Ser Gly Pro Leu Arg Gly Ser Thr Arg Leu Thr Leu Cys Gly Ser
 580 585 590

Asn Phe Tyr Leu His Pro Ser Gly Leu Val Pro Glu Gly Thr His Gln
 595 600 605

Val Thr Val Gly Gln Ser Pro Cys Arg Pro Leu Pro Lys Asp Ser Ser
 610 615 620

Lys Leu Arg Pro Val Pro Arg Lys Asp Phe Val Glu Glu Phe Glu Cys
625 630 635 640

Glu Leu Glu Pro Leu Gly Thr Gln Ala Val Gly Pro Thr Asn Val Ser
645 650 655

Leu Thr Val Thr Asn Met Pro Pro Gly Lys His Phe Arg Val Asp Gly
660 665 670

Thr Ser Val Leu Arg Gly Phe Ser Phe Met Glu Pro Val Leu Ile Ala
675 680 685

Val Gln Pro Leu Phe Gly Pro Arg Ala Gly Gly Thr Cys Leu Thr Leu
690 695 700

Glu Gly Gln Ser Leu Ser Val Gly Thr Ser Arg Ala Val Leu Val Asn
705 710 715 720

Gly Thr Glu Cys Leu Leu Ala Arg Val Ser Glu Gly Gln Leu Leu Cys
725 730 735

Ala Thr Pro Pro Gly Ala Thr Val Ala Ser Val Pro Leu Ser Leu Gln
740 745 750

Val Gly Gly Ala Gln Val Pro Gly Ser Trp Thr Phe Gln Tyr Arg Glu
755 760 765

Asp Pro Val Val Leu Ser Ile Ser Pro Asn Cys Gly Tyr Ile Asn Ser
770 775 780

His Ile Thr Ile Cys Gly Gln His Leu Thr Ser Ala Trp His Leu Val
785 790 795 800

Leu Ser Phe His Asp Gly Leu Arg Ala Val Glu Ser Arg Cys Glu Arg
805 810 815

Gln Leu Pro Glu Gln Gln Leu Cys Arg Leu Pro Glu Tyr Val Val Arg
820 825 830

Asp Pro Gln Gly Trp Val Ala Gly Asn Leu Ser Ala Arg Gly Asp Gly
835 840 845

Ala Ala Gly Phe Thr Leu Pro Gly Phe Arg Phe Leu Pro Pro Pro His
850 855 860

Pro Pro Ser Ala Asn Leu Val Pro Leu Lys Pro Glu Glu His Ala Ile
865 870 875 880

Lys Phe Glu Tyr Ile Gly Leu Gly Ala Val Ala Asp Cys Val Gly Ile
885 890 895

Asn Val Thr Val Gly Gly Glu Ser Cys Gln His Glu Phe Arg Gly Asp
900 905 910

Met Val Val Cys Pro Leu Pro Pro Ser Leu Gln Leu Gly Gln Asp Gly
915 920 925

Ala Pro Leu Gln Val Cys Val Asp Gly Glu Cys His Ile Leu Gly Arg
930 935 940

Val Val Arg Pro Gly Pro Asp Gly Val Pro Gln Ser Thr Leu Leu Gly
945 950 955 960

Ile Leu Leu Pro Leu Leu Leu Leu Val Ala Ala Leu Ala Thr Ala Leu
965 970 975

Val Phe Ser Tyr Trp Trp Arg Arg Lys Gln Leu Val Leu Pro Pro Asn
980 985 990

Leu Asn Asp Leu Ala Ser Leu Asp Gln Thr Ala Gly Ala Thr Pro Leu
995 1000 1005

Pro Ile Leu Tyr Ser Gly Ser Asp Tyr Arg Ser Gly Leu Ala Leu
1010 1015 1020

Pro Ala Ile Asp Gly Leu Asp Ser Thr Thr Cys Val His Gly Ala
1025 1030 1035

Ser Phe Ser Asp Ser Glu Asp Glu Ser Cys Val Pro Leu Leu Arg
1040 1045 1050

Lys Glu Ser Ile Gln Leu Arg Asp Leu Asp Ser Ala Leu Leu Ala
1055 1060 1065

Glu Val Lys Asp Val Leu Ile Pro His Glu Arg Val Val Thr His
1070 1075 1080

Ser Asp Arg Val Ile Gly Lys Gly His Phe Gly Val Val Tyr His
1085 1090 1095

Gly	Glu	Tyr	Ile	Asp	Gln	Ala	Gln	Asn	Arg	Ile	Gln	Cys	Ala	Ile
1100						1105					1110			
Lys	Ser	Leu	Ser	Arg	Ile	Thr	Glu	Met	Gln	Gln	Val	Glu	Ala	Phe
1115						1120					1125			
Leu	Arg	Glu	Gly	Leu	Leu	Met	Arg	Gly	Leu	Asn	His	Pro	Asn	Val
1130						1135					1140			
Leu	Ala	Leu	Ile	Gly	Ile	Met	Leu	Pro	Pro	Glu	Gly	Leu	Pro	His
1145						1150					1155			
Val	Leu	Leu	Pro	Tyr	Met	Cys	His	Gly	Asp	Leu	Leu	Gln	Phe	Ile
1160						1165					1170			
Arg	Ser	Pro	Gln	Arg	Asn	Pro	Thr	Val	Lys	Asp	Leu	Ile	Ser	Phe
1175						1180					1185			
Gly	Leu	Gln	Val	Ala	Arg	Gly	Met	Glu	Tyr	Leu	Ala	Glu	Gln	Lys
1190						1195					1200			
Phe	Val	His	Arg	Asp	Leu	Ala	Ala	Arg	Asn	Cys	Met	Leu	Asp	Glu
1205						1210					1215			
Ser	Phe	Thr	Val	Lys	Val	Ala	Asp	Phe	Gly	Leu	Ala	Arg	Asp	Ile
1220						1225					1230			
Leu	Asp	Arg	Glu	Tyr	Tyr	Ser	Val	Gln	Gln	His	Arg	His	Ala	Arg
1235						1240					1245			
Leu	Pro	Val	Lys	Trp	Met	Ala	Leu	Glu	Ser	Leu	Gln	Thr	Tyr	Arg
1250						1255					1260			
Phe	Thr	Thr	Lys	Ser	Asp	Val	Trp	Ser	Phe	Gly	Val	Leu	Leu	Trp
1265						1270					1275			
Glu	Leu	Leu	Thr	Arg	Gly	Ala	Pro	Pro	Tyr	Arg	His	Ile	Asp	Pro
1280						1285					1290			
Phe	Asp	Leu	Thr	His	Phe	Leu	Ala	Gln	Gly	Arg	Arg	Leu	Pro	Gln
1295						1300					1305			
Pro	Glu	Tyr	Cys	Pro	Asp	Ser	Leu	Tyr	Gln	Val	Met	Gln	Gln	Cys
1310						1315					1320			
Trp	Glu	Ala	Asp	Pro	Ala	Val	Arg	Pro	Thr	Phe	Arg	Val	Leu	Val

1325 1330 1335
 Gly Glu Val Glu Gln Ile Val Ser Ala Leu Leu Gly Asp His Tyr
 1340 1345 1350
 Val Gln Leu Pro Ala Thr Tyr Met Asn Leu Gly Pro Ser Thr Ser
 1355 1360 1365
 His Glu Met Asn Val Arg Pro Glu Gln Pro Gln Phe Ser Pro Met
 1370 1375 1380
 Pro Gly Asn Val Arg Arg Pro Arg Pro Leu Ser Glu Pro Pro Arg
 1385 1390 1395
 Pro Thr
 1400
 <210> 41
 <211> 693
 <212> PRT
 <213> homo sapiens
 <400> 41
 Met Thr Pro Gln Ser Leu Leu Gln Thr Thr Leu Phe Leu Leu Ser Leu
 1 5 10 15
 Leu Phe Leu Val Gln Gly Ala His Gly Arg Gly His Arg Glu Asp Phe
 20 25 30
 Arg Phe Cys Ser Gln Arg Asn Gln Thr His Arg Ser Ser Leu His Tyr
 35 40 45
 Lys Pro Thr Pro Asp Leu Arg Ile Ser Ile Glu Asn Ser Glu Glu Ala
 50 55 60
 Leu Thr Val His Ala Pro Phe Pro Ala Ala His Pro Ala Ser Arg Ser
 65 70 75 80
 Phe Pro Asp Pro Arg Gly Leu Tyr His Phe Cys Leu Tyr Trp Asn Arg
 85 90 95
 His Ala Gly Arg Leu His Leu Leu Tyr Gly Lys Arg Asp Phe Leu Leu
 100 105 110

Ser Asp Lys Ala Ser Ser Leu Leu Cys Phe Gln His Gln Glu Glu Ser
 115 120 125

Leu Ala Gln Gly Pro Pro Leu Leu Ala Thr Ser Val Thr Ser Trp Trp
 130 135 140

Ser Pro Gln Asn Ile Ser Leu Pro Ser Ala Ala Ser Phe Thr Phe Ser
 145 150 155 160

Phe His Ser Pro Pro His Thr Ala Ala His Asn Ala Ser Val Asp Met
 165 170 175

Cys Glu Leu Lys Arg Asp Leu Gln Leu Leu Ser Gln Phe Leu Lys His
 180 185 190

Pro Gln Lys Ala Ser Arg Arg Pro Ser Ala Ala Pro Ala Ser Gln Gln
 195 200 205

Leu Gln Ser Leu Glu Ser Lys Leu Thr Ser Val Arg Phe Met Gly Asp
 210 215 220

Met Val Ser Phe Glu Glu Asp Arg Ile Asn Ala Thr Val Trp Lys Leu
 225 230 235 240

Gln Pro Thr Ala Gly Leu Gln Asp Leu His Ile His Ser Arg Gln Glu
 245 250 255

Glu Glu Gln Ser Glu Ile Met Glu Tyr Ser Val Leu Leu Pro Arg Thr
 260 265 270

Leu Phe Gln Arg Thr Lys Gly Arg Ser Gly Glu Ala Glu Lys Arg Leu
 275 280 285

Leu Leu Val Asp Phe Ser Ser Gln Ala Leu Phe Gln Asp Lys Asn Ser
 290 295 300

Ser Gln Val Leu Gly Glu Lys Val Leu Gly Ile Val Val Gln Asn Thr
 305 310 315 320

Lys Val Ala Asn Leu Thr Glu Pro Val Val Leu Thr Phe Gln His Gln
 325 330 335

Leu Gln Pro Lys Asn Val Thr Leu Gln Cys Val Phe Trp Val Glu Asp
 340 345 350

Pro Thr Leu Ser Ser Pro Gly His Trp Ser Ser Ala Gly Cys Glu Thr
 355 360 365

Val Arg Arg Glu Thr Gln Thr Ser Cys Phe Cys Asn His Leu Thr Tyr
 370 375 380

Phe Ala Val Leu Met Val Ser Ser Val Glu Val Asp Ala Val His Lys
 385 390 395 400

His Tyr Leu Ser Leu Leu Ser Tyr Val Gly Cys Val Val Ser Ala Leu
 405 410 415

Ala Cys Leu Val Thr Ile Ala Ala Tyr Leu Cys Ser Arg Val Pro Leu
 420 425 430

Pro Cys Arg Arg Lys Pro Arg Asp Tyr Thr Ile Lys Val His Met Asn
 435 440 445

Leu Leu Leu Ala Val Phe Leu Leu Asp Thr Ser Phe Leu Leu Ser Glu
 450 455 460

Pro Val Ala Leu Thr Gly Ser Glu Ala Gly Cys Arg Ala Ser Ala Ile
 465 470 475 480

Phe Leu His Phe Ser Leu Leu Thr Cys Leu Ser Trp Met Gly Leu Glu
 485 490 495

Gly Tyr Asn Leu Tyr Arg Leu Val Val Glu Val Phe Gly Thr Tyr Val
 500 505 510

Pro Gly Tyr Leu Leu Lys Leu Ser Ala Met Gly Trp Gly Phe Pro Ile
 515 520 525

Phe Leu Val Thr Leu Val Ala Leu Val Asp Val Asp Asn Tyr Gly Pro
 530 535 540

Ile Ile Leu Ala Val His Arg Thr Pro Glu Gly Val Ile Tyr Pro Ser
 545 550 555 560

Met Cys Trp Ile Arg Asp Ser Leu Val Ser Tyr Ile Thr Asn Leu Gly
 565 570 575

Leu Phe Ser Leu Val Phe Leu Phe Asn Met Ala Met Leu Ala Thr Met
 580 585 590

Val Val Gln Ile Leu Arg Leu Arg Pro His Thr Gln Lys Trp Ser His
595 600 605

Val Leu Thr Leu Leu Gly Leu Ser Leu Val Leu Gly Leu Pro Trp Ala
610 615 620

Leu Ile Phe Phe Ser Phe Ala Ser Gly Thr Phe Gln Leu Val Val Leu
625 630 635 640

Tyr Leu Phe Ser Ile Ile Thr Ser Phe Gln Gly Phe Leu Ile Phe Ile
645 650 655

Trp Tyr Trp Ser Met Arg Leu Gln Ala Arg Gly Gly Pro Ser Pro Leu
660 665 670

Lys Ser Asn Ser Asp Cys Ala Arg Leu Pro Ile Ser Ser Gly Ser Thr
675 680 685

Ser Ser Ser Arg Ile
690

<210> 42

<211> 806

<212> PRT

<213> homo sapiens

<400> 42

Met Gly Ala Pro Ala Cys Ala Leu Ala Leu Cys Val Ala Val Ala Ile
1 5 10 15

Val Ala Gly Ala Ser Ser Glu Ser Leu Gly Thr Glu Gln Arg Val Val
20 25 30

Gly Arg Ala Ala Glu Val Pro Gly Pro Glu Pro Gly Gln Gln Glu Gln
35 40 45

Leu Val Phe Gly Ser Gly Asp Ala Val Glu Leu Ser Cys Pro Pro Pro
50 55 60

Gly Gly Gly Pro Met Gly Pro Thr Val Trp Val Lys Asp Gly Thr Gly
65 70 75 80

Leu Val Pro Ser Glu Arg Val Leu Val Gly Pro Gln Arg Leu Gln Val

Leu Asn Ala Ser His Glu Asp Ser Gly Ala Tyr Ser Cys Arg Gln Arg
100 105 110

Leu Thr Gln Arg Val Leu Cys His Phe Ser Val Arg Val Thr Asp Ala
115 120 125

Pro Ser Ser Gly Asp Asp Glu Asp Gly Glu Asp Glu Ala Glu Asp Thr
130 135 140

Gly Val Asp Thr Gly Ala Pro Tyr Trp Thr Arg Pro Glu Arg Met Asp
145 150 155 160

Lys Lys Leu Leu Ala Val Pro Ala Ala Asn Thr Val Arg Phe Arg Cys
165 170 175

Pro Ala Ala Gly Asn Pro Thr Pro Ser Ile Ser Trp Leu Lys Asn Gly
180 185 190

Arg Glu Phe Arg Gly Glu His Arg Ile Gly Gly Ile Lys Leu Arg His
195 200 205

Gln Gln Trp Ser Leu Val Met Glu Ser Val Val Pro Ser Asp Arg Gly
210 215 220

Asn Tyr Thr Cys Val Val Glu Asn Lys Phe Gly Ser Ile Arg Gln Thr
225 230 235 240

Tyr Thr Leu Asp Val Leu Glu Arg Ser Pro His Arg Pro Ile Leu Gln
245 250 255

Ala Gly Leu Pro Ala Asn Gln Thr Ala Val Leu Gly Ser Asp Val Glu
260 265 270

Phe His Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Leu
275 280 285

Lys His Val Glu Val Asn Gly Ser Lys Val Gly Pro Asp Gly Thr Pro
290 295 300

Tyr Val Thr Val Leu Lys Thr Ala Gly Ala Asn Thr Thr Asp Lys Glu
305 310 315 320

Leu Glu Val Leu Ser Leu His Asn Val Thr Phe Glu Asp Ala Gly Glu
325 330 335

Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Phe Ser His His Ser Ala
 340 345 350

Trp Leu Val Val Leu Pro Ala Glu Glu Glu Leu Val Glu Ala Asp Glu
 355 360 365

Ala Gly Ser Val Tyr Ala Gly Ile Leu Ser Tyr Gly Val Gly Phe Phe
 370 375 380

Leu Phe Ile Leu Val Val Ala Ala Val Thr Leu Cys Arg Leu Arg Ser
 385 390 395 400

Pro Pro Lys Lys Gly Leu Gly Ser Pro Thr Val His Lys Ile Ser Arg
 405 410 415

Phe Pro Leu Lys Arg Gln Val Ser Leu Glu Ser Asn Ala Ser Met Ser
 420 425 430

Ser Asn Thr Pro Leu Val Arg Ile Ala Arg Leu Ser Ser Gly Glu Gly
 435 440 445

Pro Thr Leu Ala Asn Val Ser Glu Leu Glu Leu Pro Ala Asp Pro Lys
 450 455 460

Trp Glu Leu Ser Arg Ala Arg Leu Thr Leu Gly Lys Pro Leu Gly Glu
 465 470 475 480

Gly Cys Phe Gly Gln Val Val Met Ala Glu Ala Ile Gly Ile Asp Lys
 485 490 495

Asp Arg Ala Ala Lys Pro Val Thr Val Ala Val Lys Met Leu Lys Asp
 500 505 510

Asp Ala Thr Asp Lys Asp Leu Ser Asp Leu Val Ser Glu Met Glu Met
 515 520 525

Met Lys Met Ile Gly Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala
 530 535 540

Cys Thr Gln Gly Gly Pro Leu Tyr Val Leu Val Glu Tyr Ala Ala Lys
 545 550 555 560

Gly Asn Leu Arg Glu Phe Leu Arg Ala Arg Arg Pro Pro Gly Leu Asp
 565 570 575

Tyr Ser Phe Asp Thr Cys Lys Pro Pro Glu Glu Gln Leu Thr Phe Lys
580 585 590

Asp Leu Val Ser Cys Ala Tyr Gln Val Ala Arg Gly Met Glu Tyr Leu
595 600 605

Ala Ser Gln Lys Cys Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu
610 615 620

Val Thr Glu Asp Asn Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg
625 630 635 640

Asp Val His Asn Leu Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu
645 650 655

Pro Val Lys Trp Met Ala Pro Glu Ala Leu Phe Asp Arg Val Tyr Thr
660 665 670

His Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu Trp Glu Ile Phe
675 680 685

Thr Leu Gly Gly Ser Pro Tyr Pro Gly Ile Pro Val Glu Glu Leu Phe
690 695 700

Lys Leu Leu Lys Glu Gly His Arg Met Asp Lys Pro Ala Asn Cys Thr
705 710 715 720

His Asp Leu Tyr Met Ile Met Arg Glu Cys Trp His Ala Ala Pro Ser
725 730 735

Gln Arg Pro Thr Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Val Leu
740 745 750

Thr Val Thr Ser Thr Asp Glu Tyr Leu Asp Leu Ser Ala Pro Phe Glu
755 760 765

Gln Tyr Ser Pro Gly Gly Gln Asp Thr Pro Ser Ser Ser Ser Ser Gly
770 775 780

Asp Asp Ser Val Phe Ala His Asp Leu Leu Pro Pro Ala Pro Pro Ser
785 790 795 800

Ser Gly Gly Ser Arg Thr
805

<210> 43

<211> 807

<212> PRT

<213> homo sapiens

<400> 43

Met Met Asp Ser Pro Phe Leu Glu Leu Trp Gln Ser Lys Ala Val Ser
1 5 10 15

Ile Arg Glu Gln Leu Gly Leu Gly Asp Arg Pro Asn Asp Ser Tyr Cys
20 25 30

Tyr Asn Ser Ala Lys Asn Ser Thr Val Leu Gln Gly Val Thr Phe Gly
35 40 45

Gly Ile Pro Thr Val Leu Leu Ile Asp Val Ser Cys Phe Leu Phe Leu
50 55 60

Ile Leu Val Phe Ser Ile Ile Arg Arg Arg Phe Trp Asp Tyr Gly Arg
65 70 75 80

Ile Ala Leu Val Ser Glu Ala Asp Ser Glu Ser Arg Phe Gln Arg Leu
85 90 95

Ser Ser Thr Ser Ser Ser Gly Gln Gln Asp Phe Glu Asn Glu Leu Gly
100 105 110

Cys Cys Pro Trp Leu Thr Ala Ile Phe Arg Leu His Asp Asp Gln Ile
115 120 125

Leu Glu Trp Cys Gly Glu Asp Ala Ile His Tyr Leu Ser Phe Gln Arg
130 135 140

His Ile Ile Phe Leu Leu Val Val Val Ser Phe Leu Ser Leu Cys Val
145 150 155 160

Ile Leu Pro Val Asn Leu Ser Gly Asp Leu Leu Asp Lys Asp Pro Tyr
165 170 175

Ser Phe Gly Arg Thr Thr Ile Ala Asn Leu Gln Thr Asp Asn Asp Leu
180 185 190

Leu Trp Leu His Thr Ile Phe Ala Val Ile Tyr Leu Phe Leu Thr Val

195

200

205

Gly Phe Met Arg His His Thr Gln Ser Ile Lys Tyr Lys Glu Glu Asn
210 215 220

Leu Val Arg Arg Thr Leu Phe Ile Thr Gly Leu Pro Arg Asp Ala Arg
225 230 235 240

Lys Glu Thr Val Glu Ser His Phe Arg Asp Ala Tyr Pro Thr Cys Glu
245 250 255

Val Val Asp Val Gln Leu Cys Tyr Asn Val Ala Lys Leu Ile Tyr Leu
260 265 270

Cys Lys Glu Lys Lys Lys Thr Glu Lys Ser Leu Thr Tyr Tyr Thr Asn
275 280 285

Leu Gln Val Lys Thr Gly Gln Arg Thr Leu Ile Asn Pro Lys Pro Cys
290 295 300

Gly Gln Phe Cys Cys Cys Glu Val Leu Gly Cys Glu Trp Glu Asp Ala
305 310 315 320

Ile Ser Tyr Tyr Thr Arg Met Lys Asp Arg Leu Leu Glu Arg Ile Thr
325 330 335

Glu Glu Glu Arg His Val Gln Asp Gln Pro Leu Gly Met Ala Phe Val
340 345 350

Thr Phe Gln Glu Lys Ser Met Ala Thr Tyr Ile Leu Lys Asp Phe Asn
355 360 365

Ala Cys Lys Cys Gln Ser Leu Gln Cys Lys Gly Glu Pro Gln Pro Ser
370 375 380

Ser His Ser Arg Glu Leu Tyr Thr Ser Lys Trp Thr Val Thr Phe Ala
385 390 395 400

Ala Asp Pro Glu Asp Ile Cys Trp Lys Asn Leu Ser Ile Gln Gly Leu
405 410 415

Arg Trp Trp Leu Gln Trp Leu Gly Ile Asn Phe Thr Leu Phe Leu Gly
420 425 430

Leu Phe Phe Leu Thr Thr Pro Ser Ile Ile Leu Ser Thr Met Asp Lys
435 440 445

Phe Asn Val Thr Lys Pro Ile His Ala Leu Asn Asn Pro Ile Ile Ser
 450 455 460

Gln Phe Phe Pro Thr Leu Leu Leu Trp Ser Phe Ser Ala Leu Leu Pro
 465 470 475 480

Ser Ile Val Tyr Tyr Ser Thr Leu Leu Glu Ser His Trp Thr Lys Ser
 485 490 495

Gly Glu Asn Gln Ile Met Met Thr Lys Val Tyr Ile Phe Leu Ile Phe
 500 505 510

Met Val Leu Ile Leu Pro Ser Leu Gly Leu Thr Ser Leu Asp Phe Phe
 515 520 525

Phe Arg Trp Leu Phe Asp Lys Thr Ser Ser Glu Ala Ser Ile Arg Leu
 530 535 540

Glu Cys Val Phe Leu Pro Asp Gln Gly Ala Phe Phe Val Asn Tyr Val
 545 550 555 560

Ile Ala Ser Ala Phe Ile Gly Asn Gly Met Glu Leu Leu Arg Leu Pro
 565 570 575

Gly Leu Ile Leu Tyr Thr Phe Arg Met Ile Met Ala Lys Thr Ala Ala
 580 585 590

Asp Arg Arg Asn Val Lys Gln Asn Gln Ala Phe Gln Tyr Glu Phe Gly
 595 600 605

Ala Met Tyr Ala Trp Met Leu Cys Val Phe Thr Val Ile Val Ala Tyr
 610 615 620

Ser Ile Thr Cys Pro Ile Ile Ala Pro Phe Gly Leu Ile Tyr Ile Leu
 625 630 635 640

Leu Lys His Met Val Asp Arg His Asn Leu Tyr Phe Val Tyr Leu Pro
 645 650 655

Ala Lys Leu Glu Lys Gly Ile His Phe Ala Ala Val Asn Gln Ala Leu
 660 665 670

Ala Ala Pro Ile Leu Cys Leu Phe Trp Leu Tyr Phe Phe Ser Phe Leu
 675 680 685

Arg Leu Gly Met Lys Ala Pro Ala Thr Leu Phe Thr Phe Leu Val Leu
 690 695 700

Leu Leu Thr Ile Leu Val Cys Leu Ala His Thr Cys Phe Gly Cys Phe
 705 710 715 720

Lys His Leu Ser Pro Leu Asn Tyr Lys Thr Glu Glu Pro Ala Ser Asp
 725 730 735

Lys Gly Ser Glu Ala Glu Ala His Met Pro Pro Pro Phe Thr Pro Tyr
 740 745 750

Val Pro Arg Ile Leu Asn Gly Leu Ala Ser Glu Arg Thr Ala Leu Ser
 755 760 765

Pro Gln Gln Gln Gln Gln Gln Thr Tyr Gly Ala Ile His Asn Ile Ser
 770 775 780

Gly Thr Ile Pro Gly Gln Cys Leu Ala Gln Ser Ala Thr Gly Ser Val
 785 790 795 800

Ala Ala Ala Pro Gln Glu Ala
 805

<210> 44

<211> 309

<212> PRT

<213> homo sapiens

<400> 44

Met Asn Gly Thr Tyr Asn Thr Cys Gly Ser Ser Asp Leu Thr Trp Pro
 1 5 10 15

Pro Ala Ile Lys Leu Gly Phe Tyr Ala Tyr Leu Gly Val Leu Leu Val
 20 25 30

Leu Gly Leu Leu Leu Asn Ser Leu Ala Leu Trp Val Phe Cys Cys Arg
 35 40 45

Met Gln Gln Trp Thr Glu Thr Arg Ile Tyr Met Thr Asn Leu Ala Val
 50 55 60

Ala Asp Leu Cys Leu Leu Cys Thr Leu Pro Phe Val Leu His Ser Leu
65 70 75 80

Arg Asp Thr Ser Asp Thr Pro Leu Cys Gln Leu Ser Gln Gly Ile Tyr
85 90 95

Leu Thr Asn Arg Tyr Met Ser Ile Ser Leu Val Thr Ala Ile Ala Val
100 105 110

Asp Arg Tyr Val Ala Val Arg His Pro Leu Arg Ala Arg Gly Leu Arg
115 120 125

Ser Pro Arg Gln Ala Ala Ala Val Cys Ala Val Leu Trp Val Leu Val
130 135 140

Ile Gly Ser Leu Val Ala Arg Trp Leu Leu Gly Ile Gln Glu Gly Gly
145 150 155 160

Phe Cys Phe Arg Ser Thr Arg His Asn Phe Asn Ser Met Arg Phe Pro
165 170 175

Leu Leu Gly Phe Tyr Leu Pro Leu Ala Val Val Val Phe Cys Ser Leu
180 185 190

Lys Val Val Thr Ala Leu Ala Gln Arg Pro Pro Thr Asp Val Gly Gln
195 200 205

Ala Glu Ala Thr Arg Lys Ala Ala Arg Met Val Trp Ala Asn Leu Leu
210 215 220

Val Phe Val Val Cys Phe Leu Pro Leu His Val Gly Leu Thr Val Arg
225 230 235 240

Leu Ala Val Gly Trp Asn Ala Cys Ala Leu Leu Glu Thr Ile Arg Arg
245 250 255

Ala Leu Tyr Ile Thr Ser Lys Leu Ser Asp Ala Asn Cys Cys Leu Asp
260 265 270

Ala Ile Cys Tyr Tyr Tyr Met Ala Lys Glu Phe Gln Glu Ala Ser Ala
275 280 285

Leu Ala Val Ala Pro Arg Ala Lys Ala His Lys Ser Gln Asp Ser Leu
290 295 300

Cys Val Thr Leu Ala

305

<210> 45

<211> 95

<212> PRT

<213> homo sapiens

<400> 45

Met Thr Glu Leu Glu Thr Ala Met Gly Met Ile Ile Asp Val Phe Ser
1 5 10 15

Arg Tyr Ser Gly Ser Glu Gly Ser Thr Gln Thr Leu Thr Lys Gly Glu
20 25 30

Leu Lys Val Leu Met Glu Lys Glu Leu Pro Gly Phe Leu Gln Ser Gly
35 40 45

Lys Asp Lys Asp Ala Val Asp Lys Leu Leu Lys Asp Leu Asp Ala Asn
50 55 60

Gly Asp Ala Gln Val Asp Phe Ser Glu Phe Ile Val Phe Val Ala Ala
65 70 75 80

Ile Thr Ser Ala Cys His Lys Tyr Phe Glu Lys Ala Gly Leu Lys
85 90 95

<210> 46

<211> 345

<212> PRT

<213> homo sapiens

<400> 46

Met Gly Val Cys Gly Tyr Leu Phe Leu Pro Trp Lys Cys Leu Val Val
1 5 10 15

Val Ser Leu Arg Leu Leu Phe Leu Val Pro Thr Gly Val Pro Val Arg
20 25 30

Ser Gly Asp Ala Thr Phe Pro Lys Ala Met Asp Asn Val Thr Val Arg
35 40 45

Gln Gly Glu Ser Ala Thr Leu Arg Cys Thr Ile Asp Asp Arg Val Thr
 50 55 60

Arg Val Ala Trp Leu Asn Arg Ser Thr Ile Leu Tyr Ala Gly Asn Asp
 65 70 75 80

Lys Trp Ser Ile Asp Pro Arg Val Ile Ile Leu Val Asn Thr Pro Thr
 85 90 95

Gln Tyr Ser Ile Met Ile Gln Asn Val Asp Val Tyr Asp Glu Gly Pro
 100 105 110

Tyr Thr Cys Ser Val Gln Thr Asp Asn His Pro Lys Thr Ser Arg Val
 115 120 125

His Leu Ile Val Gln Val Pro Pro Gln Ile Met Asn Ile Ser Ser Asp
 130 135 140

Ile Thr Val Asn Glu Gly Ser Ser Val Thr Leu Leu Cys Leu Ala Ile
 145 150 155 160

Gly Arg Pro Glu Pro Thr Val Thr Trp Arg His Leu Ser Val Lys Glu
 165 170 175

Gly Gln Gly Phe Val Ser Glu Asp Glu Tyr Leu Glu Ile Ser Asp Ile
 180 185 190

Lys Arg Asp Gln Ser Gly Glu Tyr Glu Cys Ser Ala Leu Asn Asp Val
 195 200 205

Ala Ala Pro Asp Val Arg Lys Val Lys Ile Thr Val Asn Tyr Pro Pro
 210 215 220

Tyr Ile Ser Lys Ala Lys Asn Thr Gly Val Ser Val Gly Gln Lys Gly
 225 230 235 240

Ile Leu Ser Cys Glu Ala Ser Ala Val Pro Met Ala Glu Phe Gln Trp
 245 250 255

Phe Lys Glu Glu Thr Arg Leu Ala Thr Gly Leu Asp Gly Met Arg Ile
 260 265 270

Glu Asn Lys Gly Arg Met Ser Thr Leu Thr Phe Phe Asn Val Ser Glu
 275 280 285

Lys Asp Tyr Gly Asn Tyr Thr Cys Val Ala Thr Asn Lys Leu Gly Asn
 290 295 300

Thr Asn Ala Ser Ile Thr Leu Tyr Gly Pro Gly Ala Val Ile Asp Gly
 305 310 315 320

Val Asn Ser Ala Ser Arg Ala Leu Ala Cys Leu Trp Leu Ser Gly Thr
 325 330 335

Leu Leu Ala His Phe Phe Ile Lys Phe
 340 345

<210> 47

<211> 211

<212> PRT

<213> homo sapiens

<400> 47

Met Ala Asn Ala Gly Leu Gln Leu Leu Gly Phe Ile Leu Ala Phe Leu
 1 5 10 15

Gly Trp Ile Gly Ala Ile Val Ser Thr Ala Leu Pro Gln Trp Arg Ile
 20 25 30

Tyr Ser Tyr Ala Gly Asp Asn Ile Val Thr Ala Gln Ala Met Tyr Glu
 35 40 45

Gly Leu Trp Met Ser Cys Val Ser Gln Ser Thr Gly Gln Ile Gln Cys
 50 55 60

Lys Val Phe Asp Ser Leu Leu Asn Leu Ser Ser Thr Leu Gln Ala Thr
 65 70 75 80

Arg Ala Leu Met Val Val Gly Ile Leu Leu Gly Val Ile Ala Ile Phe
 85 90 95

Val Ala Thr Val Gly Met Lys Cys Met Lys Cys Leu Glu Asp Asp Glu
 100 105 110

Val Gln Lys Met Arg Met Ala Val Ile Gly Gly Ala Ile Phe Leu Leu
 115 120 125

Ala Gly Leu Ala Ile Leu Val Ala Thr Ala Trp Tyr Gly Asn Arg Ile
 130 135 140

Val Gln Glu Phe Tyr Asp Pro Met Thr Pro Val Asn Ala Arg Tyr Glu
 145 150 155 160

Phe Gly Gln Ala Leu Phe Thr Gly Trp Ala Ala Ala Ser Leu Cys Leu
 165 170 175

Leu Gly Gly Ala Leu Leu Cys Cys Ser Cys Pro Arg Lys Thr Thr Ser
 180 185 190

Tyr Pro Thr Pro Arg Pro Tyr Pro Lys Pro Ala Pro Ser Ser Gly Lys
 195 200 205

Asp Tyr Val
 210

<210> 48

<211> 823

<212> PRT

<213> homo sapiens

<400> 48

Met Ala Leu Pro Arg Cys Thr Trp Pro Asn Tyr Val Trp Arg Ala Val
 1 5 10 15

Met Ala Cys Leu Val His Arg Gly Leu Gly Ala Pro Leu Thr Leu Cys
 20 25 30

Met Leu Gly Cys Leu Leu Gln Ala Gly His Val Leu Ser Gln Lys Leu
 35 40 45

Asp Asp Val Asp Pro Leu Val Ala Thr Asn Phe Gly Lys Ile Arg Gly
 50 55 60

Ile Lys Lys Glu Leu Asn Asn Glu Ile Leu Gly Pro Val Ile Gln Phe
 65 70 75 80

Leu Gly Val Pro Tyr Ala Ala Pro Pro Thr Gly Glu Arg Arg Phe Gln
 85 90 95

Pro Pro Glu Pro Pro Ser Pro Trp Ser Asp Ile Arg Asn Ala Thr Gln

His Ile Ala Phe Gly Pro Val Ile Asp Gly Asp Val Ile Pro Asp Asp
 355 360 365

Pro Gln Ile Leu Met Glu Gln Gly Glu Phe Leu Asn Tyr Asp Ile Met
 370 375 380

Leu Gly Val Asn Gln Gly Glu Gly Leu Lys Phe Val Glu Asn Ile Val
 385 390 395 400

Asp Ser Asp Asp Gly Ile Ser Ala Ser Asp Phe Asp Phe Ala Val Ser
 405 410 415

Asn Phe Val Asp Asn Leu Tyr Gly Tyr Pro Glu Gly Lys Asp Val Leu
 420 425 430

Arg Glu Thr Ile Lys Phe Met Tyr Thr Asp Trp Ala Asp Arg His Asn
 435 440 445

Pro Glu Thr Arg Arg Lys Thr Leu Leu Ala Leu Phe Thr Asp His Gln
 450 455 460

Trp Val Ala Pro Ala Val Ala Thr Ala Asp Leu His Ser Asn Phe Gly
 465 470 475 480

Ser Pro Thr Tyr Phe Tyr Ala Phe Tyr His His Cys Gln Thr Asp Gln
 485 490 495

Val Pro Ala Trp Ala Asp Ala Ala His Gly Asp Glu Val Pro Tyr Val
 500 505 510

Leu Gly Ile Pro Met Ile Gly Pro Thr Glu Leu Phe Pro Cys Asn Phe
 515 520 525

Ser Lys Asn Asp Val Met Leu Ser Ala Val Val Met Thr Tyr Trp Thr
 530 535 540

Asn Phe Ala Lys Thr Gly Asp Pro Asn Gln Pro Val Pro Gln Asp Thr
 545 550 555 560

Lys Phe Ile His Thr Lys Pro Asn Arg Phe Glu Glu Val Ala Trp Thr
 565 570 575

Arg Tyr Ser Gln Lys Asp Gln Leu Tyr Leu His Ile Gly Leu Lys Pro
 580 585 590

Arg Val Lys Glu His Tyr Arg Ala Asn Lys Val Asn Leu Trp Leu Glu
 595 600 605

Leu Val Pro His Leu His Asn Leu Asn Asp Ile Ser Gln Tyr Thr Ser
 610 615 620

Thr Thr Thr Lys Val Pro Ser Thr Asp Ile Thr Phe Arg Pro Thr Arg
 625 630 635 640

Lys Asn Ser Val Pro Val Thr Ser Ala Phe Pro Thr Ala Lys Gln Asp
 645 650 655

Asp Pro Lys Gln Gln Pro Ser Pro Phe Ser Val Asp Gln Arg Asp Tyr
 660 665 670

Ser Thr Glu Leu Ser Val Thr Ile Ala Val Gly Ala Ser Leu Leu Phe
 675 680 685

Leu Asn Ile Leu Ala Phe Ala Ala Leu Tyr Tyr Lys Lys Asp Lys Arg
 690 695 700

Arg His Asp Val His Arg Arg Cys Ser Pro Gln Arg Thr Thr Thr Asn
 705 710 715 720

Asp Leu Thr His Ala Gln Glu Glu Glu Ile Met Ser Leu Gln Met Lys
 725 730 735

His Thr Asp Leu Asp His Glu Cys Glu Ser Ile His Pro His Glu Val
 740 745 750

Val Leu Arg Thr Ala Cys Pro Pro Asp Tyr Thr Leu Ala Met Arg Arg
 755 760 765

Ser Pro Asp Asp Val Pro Leu Met Thr Pro Asn Thr Ile Thr Met Ile
 770 775 780

Pro Asn Thr Ile Pro Gly Ile Gln Pro Leu His Thr Phe Asn Thr Phe
 785 790 795 800

Thr Gly Gly Gln Asn Asn Thr Leu Pro His Pro His Pro His Pro His
 805 810 815

Ser His Ser Thr Thr Arg Val
 820

<210> 49

<211> 556

<212> PRT

<213> homo sapiens

<400> 49

Met Pro Ser Phe Asp Glu Ala Leu Gln Arg Val Gly Glu Phe Gly Arg
1 5 10 15

Phe Gln Arg Arg Val Phe Leu Leu Leu Cys Leu Thr Gly Val Thr Phe
20 25 30

Ala Phe Leu Phe Val Gly Val Val Phe Leu Gly Thr Gln Pro Asp His
35 40 45

Tyr Trp Cys Arg Gly Pro Ser Ala Ala Ala Leu Ala Glu Arg Cys Gly
50 55 60

Trp Ser Pro Glu Glu Glu Trp Asn Arg Thr Ala Pro Ala Ser Arg Gly
65 70 75 80

Pro Glu Pro Pro Glu Arg Arg Gly Arg Cys Gln Arg Tyr Leu Leu Glu
85 90 95

Ala Ala Asn Asp Ser Ala Ser Ala Thr Ser Ala Leu Ser Cys Ala Asp
100 105 110

Pro Leu Ala Ala Phe Pro Asn Arg Ser Ala Pro Leu Val Pro Cys Arg
115 120 125

Gly Gly Trp Arg Tyr Ala Gln Ala His Ser Thr Ile Val Ser Glu Phe
130 135 140

Asp Leu Val Cys Val Asn Ala Trp Met Leu Asp Leu Thr Gln Ala Ile
145 150 155 160

Leu Asn Leu Gly Phe Leu Thr Gly Ala Phe Thr Leu Gly Tyr Ala Ala
165 170 175

Asp Arg Tyr Gly Arg Ile Val Ile Tyr Leu Leu Ser Cys Leu Gly Val
180 185 190

Gly Val Thr Gly Val Val Val Ala Phe Ala Pro Asn Phe Pro Val Phe

195	200	205
Val Ile Phe Arg Phe Leu Gln Gly Val Phe Gly Lys Gly Thr Trp Met 210 215 220		
Thr Cys Tyr Val Ile Val Thr Glu Ile Val Gly Ser Lys Gln Arg Arg 225 230 235 240		
Ile Val Gly Ile Val Ile Gln Met Phe Phe Thr Leu Gly Ile Ile Ile 245 250 255		
Leu Pro Gly Ile Ala Tyr Phe Ile Pro Asn Trp Gln Gly Ile Gln Leu 260 265 270		
Ala Ile Thr Leu Pro Ser Phe Leu Phe Leu Leu Tyr Tyr Trp Val Val 275 280 285		
Pro Glu Ser Pro Arg Trp Leu Ile Thr Arg Lys Lys Gly Asp Lys Ala 290 295 300		
Leu Gln Ile Leu Arg Arg Ile Ala Lys Cys Asn Gly Lys Tyr Leu Ser 305 310 315 320		
Ser Asn Tyr Ser Glu Ile Thr Val Thr Asp Glu Glu Val Ser Asn Pro 325 330 335		
Ser Phe Leu Asp Leu Val Arg Thr Pro Gln Met Arg Lys Cys Thr Leu 340 345 350		
Ile Leu Met Phe Ala Trp Phe Thr Ser Ala Val Val Tyr Gln Gly Leu 355 360 365		
Val Met Arg Leu Gly Ile Ile Gly Gly Asn Leu Tyr Ile Asp Phe Phe 370 375 380		
Ile Ser Gly Val Val Glu Leu Pro Gly Ala Leu Leu Ile Leu Leu Thr 385 390 395 400		
Ile Glu Arg Leu Gly Arg Arg Leu Pro Phe Ala Ala Ser Asn Ile Val 405 410 415		
Ala Gly Val Ala Cys Leu Val Thr Ala Phe Leu Pro Glu Gly Ile Ala 420 425 430		
Trp Leu Arg Thr Thr Val Ala Thr Leu Gly Arg Leu Gly Ile Thr Met 435 440 445		

Ala Phe Glu Ile Val Tyr Leu Val Asn Ser Glu Leu Tyr Pro Thr Thr
 450 455 460

Leu Arg Asn Phe Gly Val Ser Leu Cys Ser Gly Leu Cys Asp Phe Gly
 465 470 475 480

Gly Ile Ile Ala Pro Phe Leu Leu Phe Arg Leu Ala Ala Val Trp Leu
 485 490 495

Glu Leu Pro Leu Ile Ile Phe Gly Ile Leu Ala Ser Ile Cys Gly Gly
 500 505 510

Leu Val Met Leu Leu Pro Glu Thr Lys Gly Ile Ala Leu Pro Glu Thr
 515 520 525

Val Asp Asp Val Glu Lys Leu Gly Ser Pro His Ser Cys Lys Cys Gly
 530 535 540

Arg Asn Lys Lys Thr Pro Val Ser Arg Ser His Leu
 545 550 555

<210> 50

<211> 189

<212> PRT

<213> homo sapiens

<400> 50

Met Glu Glu Gly Gly Asn Leu Gly Gly Leu Ile Lys Met Val His Leu
 1 5 10 15

Leu Val Leu Ser Gly Ala Trp Gly Met Gln Met Trp Val Thr Phe Val
 20 25 30

Ser Gly Phe Leu Leu Phe Arg Ser Leu Pro Arg His Thr Phe Gly Leu
 35 40 45

Val Gln Ser Lys Leu Phe Pro Phe Tyr Phe His Ile Ser Met Gly Cys
 50 55 60

Ala Phe Ile Asn Leu Cys Ile Leu Ala Ser Gln His Ala Trp Ala Gln
 65 70 75 80

Leu Thr Phe Trp Glu Ala Ser Gln Leu Tyr Leu Leu Phe Leu Ser Leu
85 90 95

Thr Leu Ala Thr Val Asn Ala Arg Trp Leu Glu Pro Arg Thr Thr Ala
100 105 110

Ala Met Trp Ala Leu Gln Thr Val Glu Lys Glu Arg Gly Leu Gly Gly
115 120 125

Glu Val Pro Gly Ser His Gln Gly Pro Asp Pro Tyr Arg Gln Leu Arg
130 135 140

Glu Lys Asp Pro Lys Tyr Ser Ala Leu Arg Gln Asn Phe Phe Arg Tyr
145 150 155 160

His Gly Leu Ser Ser Leu Cys Asn Leu Gly Cys Val Leu Ser Asn Gly
165 170 175

Leu Cys Leu Ala Gly Leu Ala Leu Glu Ile Arg Ser Leu
180 185

<210> 51

<211> 184

<212> PRT

<213> homo sapiens

<400> 51

Met Ser Trp Val Pro Gly Val Gly Met Glu Ile Arg Gly Glu Pro Gly
1 5 10 15

Ser Ala Leu Thr Pro Leu Trp Ser Pro Tyr Pro Ala Gly Phe Leu Leu
20 25 30

Phe Arg Ser Leu Pro Arg His Thr Phe Gly Leu Val Gln Ser Lys Leu
35 40 45

Phe Pro Phe Tyr Phe His Ile Ser Met Gly Cys Ala Phe Ile Asn Leu
50 55 60

Cys Ile Leu Ala Ser Gln His Ala Trp Ala Gln Leu Thr Phe Trp Glu
65 70 75 80

Ala Ser Gln Leu Tyr Leu Leu Phe Leu Ser Leu Thr Leu Ala Thr Val
85 90 95

Asn Ala Arg Trp Leu Glu Pro Arg Thr Thr Ala Ala Met Trp Ala Leu
100 105 110

Gln Thr Val Glu Lys Glu Arg Gly Leu Gly Gly Glu Val Pro Gly Ser
115 120 125

His Gln Gly Pro Asp Pro Tyr Arg Gln Leu Arg Glu Lys Asp Pro Lys
130 135 140

Tyr Ser Ala Leu Arg Gln Asn Phe Phe Arg Tyr His Gly Leu Ser Ser
145 150 155 160

Leu Cys Asn Leu Gly Cys Val Leu Ser Asn Gly Leu Cys Leu Ala Gly
165 170 175

Leu Ala Leu Glu Ile Arg Ser Leu
180

<210> 52

<211> 168

<212> PRT

<213> homo sapiens

<400> 52

Met Glu Glu Gly Gly Asn Leu Gly Gly Leu Ile Lys Met Val His Leu
1 5 10 15

Leu Val Leu Ser Gly Ala Trp Gly Met Gln Met Trp Val Thr Phe Val
20 25 30

Ser Gly Phe Leu Leu Phe Arg Ser Leu Pro Arg His Thr Phe Gly Leu
35 40 45

Val Gln Ser Lys Leu Phe Pro Phe Tyr Phe His Ile Ser Met Gly Cys
50 55 60

Ala Phe Ile Asn Leu Cys Ile Leu Ala Ser Gln His Ala Trp Ala Gln
65 70 75 80

Leu Thr Phe Trp Glu Ala Ser Gln Leu Tyr Leu Leu Phe Leu Ser Leu

85

90

95

Thr Leu Ala Thr Val Asn Ala Arg Leu Gly Gly Glu Val Pro Gly Ser
100 105 110

His Gln Gly Pro Asp Pro Tyr Arg Gln Leu Arg Glu Lys Asp Pro Lys
115 120 125

Tyr Ser Ala Leu Arg Gln Asn Phe Phe Arg Tyr His Gly Leu Ser Ser
130 135 140

Leu Cys Asn Leu Gly Cys Val Leu Ser Asn Gly Leu Cys Leu Ala Gly
145 150 155 160

Leu Ala Leu Glu Ile Arg Ser Leu
165

<210> 53

<211> 339

<212> PRT

<213> homo sapiens

<400> 53

Met Glu Ser Arg Lys Asp Ile Thr Asn Gln Glu Glu Leu Trp Lys Met
1 5 10 15

Lys Pro Arg Arg Asn Leu Glu Glu Asp Asp Tyr Leu His Lys Asp Thr
20 25 30

Gly Glu Thr Ser Met Leu Lys Arg Pro Val Leu Leu His Leu His Gln
35 40 45

Thr Ala His Ala Asp Glu Phe Asp Cys Pro Ser Glu Leu Gln His Thr
50 55 60

Gln Glu Leu Phe Pro Gln Trp His Leu Pro Ile Lys Ile Ala Ala Ile
65 70 75 80

Ile Ala Ser Leu Thr Phe Leu Tyr Thr Leu Leu Arg Glu Val Ile His
85 90 95

Pro Leu Ala Thr Ser His Gln Gln Tyr Phe Tyr Lys Ile Pro Ile Leu
100 105 110

Val Ile Asn Lys Val Leu Pro Met Val Ser Ile Thr Leu Leu Ala Leu
 115 120 125

Val Tyr Leu Pro Gly Val Ile Ala Ala Ile Val Gln Leu His Asn Gly
 130 135 140

Thr Lys Tyr Lys Lys Phe Pro His Trp Leu Asp Lys Trp Met Leu Thr
 145 150 155 160

Arg Lys Gln Phe Gly Leu Leu Ser Phe Phe Phe Ala Val Leu His Ala
 165 170 175

Ile Tyr Ser Leu Ser Tyr Pro Met Arg Arg Ser Tyr Arg Tyr Lys Leu
 180 185 190

Leu Asn Trp Ala Tyr Gln Gln Val Gln Gln Asn Lys Glu Asp Ala Trp
 195 200 205

Ile Glu His Asp Val Trp Arg Met Glu Ile Tyr Val Ser Leu Gly Ile
 210 215 220

Val Gly Leu Ala Ile Leu Ala Leu Leu Ala Val Thr Ser Ile Pro Ser
 225 230 235 240

Val Ser Asp Ser Leu Thr Trp Arg Glu Phe His Tyr Ile Gln Ser Lys
 245 250 255

Leu Gly Ile Val Ser Leu Leu Leu Gly Thr Ile His Ala Leu Ile Phe
 260 265 270

Ala Trp Asn Lys Trp Ile Asp Ile Lys Gln Phe Val Trp Tyr Thr Pro
 275 280 285

Pro Thr Phe Met Ile Ala Val Phe Leu Pro Ile Val Val Leu Ile Phe
 290 295 300

Lys Ser Ile Leu Phe Leu Pro Cys Leu Arg Lys Lys Ile Leu Lys Ile
 305 310 315 320

Arg His Gly Trp Glu Asp Val Thr Lys Ile Asn Lys Thr Glu Ile Cys
 325 330 335

Ser Gln Leu

<210> 54

<211> 230

<212> PRT

<213> homo sapiens

<400> 54

Met Ala Ser Leu Gly Leu Gln Leu Val Gly Tyr Ile Leu Gly Leu Leu
1 5 10 15

Gly Leu Leu Gly Thr Leu Val Ala Met Leu Leu Pro Ser Trp Lys Thr
20 25 30

Ser Ser Tyr Val Gly Ala Ser Ile Val Thr Ala Val Gly Phe Ser Lys
35 40 45

Gly Leu Trp Met Glu Cys Ala Thr His Ser Thr Gly Ile Thr Gln Cys
50 55 60

Asp Ile Tyr Ser Thr Leu Leu Gly Leu Pro Ala Asp Ile Gln Ala Ala
65 70 75 80

Gln Ala Met Met Val Thr Ser Ser Ala Ile Ser Ser Leu Ala Cys Ile
85 90 95

Ile Ser Val Val Gly Met Arg Cys Thr Val Phe Cys Gln Glu Ser Arg
100 105 110

Ala Lys Asp Arg Val Ala Val Ala Gly Gly Val Phe Phe Ile Leu Gly
115 120 125

Gly Leu Leu Gly Phe Ile Pro Val Ala Trp Asn Leu His Gly Ile Leu
130 135 140

Arg Asp Phe Tyr Ser Pro Leu Val Pro Asp Ser Met Lys Phe Glu Ile
145 150 155 160

Gly Glu Ala Leu Tyr Leu Gly Ile Ile Ser Ser Leu Phe Ser Leu Ile
165 170 175

Ala Gly Ile Ile Leu Cys Phe Ser Cys Ser Ser Gln Arg Asn Arg Ser
180 185 190

Asn Tyr Tyr Asp Ala Tyr Gln Ala Gln Pro Leu Ala Thr Arg Ser Ser
 195 200 205

Pro Arg Pro Gly Gln Pro Pro Lys Val Lys Ser Glu Phe Asn Ser Tyr
 210 215 220

Ser Leu Thr Gly Tyr Val
 225 230

<210> 55

<211> 470

<212> PRT

<213> homo sapiens

<400> 55

Met Glu Pro Ser Leu Ser Ser Glu Thr Ile Glu Arg Leu Glu Val Ser
 1 5 10 15

Ser Leu Ala Gln Thr Ser Ser Ala Val Ala Ser Ser Thr Asp Gly Ser
 20 25 30

Ile His Thr Asp Ser Val Asp Gly Thr Pro Asp Pro Gln Arg Thr Lys
 35 40 45

Ala Ala Ile Ala His Leu Gln Gln Lys Ile Leu Lys Leu Thr Glu Gln
 50 55 60

Ile Lys Ile Ala Gln Thr Ala Arg Asp Asp Asn Val Ala Glu Tyr Leu
 65 70 75 80

Lys Leu Ala Asn Ser Ala Asp Lys Gln Gln Ala Ala Arg Ile Lys Gln
 85 90 95

Val Phe Glu Lys Lys Asn Gln Lys Ser Ala Gln Thr Ile Leu Gln Leu
 100 105 110

Gln Lys Lys Leu Glu His Tyr His Arg Lys Leu Arg Glu Val Glu Gln
 115 120 125

Asn Gly Ile Pro Arg Gln Pro Lys Asp Val Phe Arg Asp Met His Gln
 130 135 140

Gly Leu Lys Asp Val Gly Ala Lys Val Thr Gly Phe Ser Glu Gly Val

145		150		155		160
Val Asp Ser Val Lys Gly Gly Phe Ser Ser Phe Ser Gln Ala Thr His						
	165			170		175
Ser Ala Ala Gly Ala Val Val Ser Lys Pro Arg Glu Ile Ala Ser Leu						
	180			185		190
Ile Arg Asn Lys Phe Gly Ser Ala Asp Asn Ile Pro Asn Leu Lys Asp						
	195			200		205
Ser Leu Glu Glu Gly Gln Val Asp Asp Ala Gly Lys Ala Leu Gly Val						
	210			215		220
Ile Ser Asn Phe Gln Ser Ser Pro Lys Tyr Gly Ser Glu Glu Asp Cys						
	225			230		235
Ser Ser Ala Thr Ser Gly Ser Val Gly Ala Asn Ser Thr Thr Gly Gly						
	245			250		255
Ile Ala Val Gly Ala Ser Ser Ser Lys Thr Asn Thr Leu Asp Met Gln						
	260			265		270
Ser Ser Gly Phe Asp Ala Leu Leu His Glu Ile Gln Glu Ile Arg Glu						
	275			280		285
Thr Gln Ala Arg Leu Glu Glu Ser Phe Glu Thr Leu Lys Glu His Tyr						
	290			295		300
Gln Arg Asp Tyr Ser Leu Ile Met Gln Thr Leu Gln Glu Glu Arg Tyr						
	305			310		315
Arg Cys Glu Arg Leu Glu Glu Gln Leu Asn Asp Leu Thr Glu Leu His						
	325			330		335
Gln Asn Glu Ile Leu Asn Leu Lys Gln Glu Leu Ala Ser Met Glu Glu						
	340			345		350
Lys Ile Ala Tyr Gln Ser Tyr Glu Arg Ala Arg Asp Ile Gln Glu Ala						
	355			360		365
Leu Glu Ala Cys Gln Thr Arg Ile Ser Lys Met Glu Leu Gln Gln Gln						
	370			375		380
Gln Gln Gln Val Val Gln Leu Glu Gly Leu Glu Asn Ala Thr Ala Arg						
	385			390		395
						400

Asn Leu Leu Gly Lys Leu Ile Asn Ile Leu Leu Ala Val Met Ala Val
 405 410 415

Leu Leu Val Phe Val Ser Thr Val Ala Asn Cys Val Val Pro Leu Met
 420 425 430

Lys Thr Arg Asn Arg Thr Phe Ser Thr Leu Phe Leu Val Val Phe Ile
 435 440 445

Ala Phe Leu Trp Lys His Trp Asp Ala Leu Phe Ser Tyr Val Glu Arg
 450 455 460

Phe Phe Ser Ser Pro Arg
 465 470

<210> 56

<211> 381

<212> PRT

<213> homo sapiens

<400> 56

Met Thr Val Ala Arg Pro Ser Val Pro Ala Ala Leu Pro Leu Leu Gly
 1 5 10 15

Glu Leu Pro Arg Leu Leu Leu Leu Val Leu Leu Cys Leu Pro Ala Val
 20 25 30

Trp Gly Asp Cys Gly Leu Pro Pro Asp Val Pro Asn Ala Gln Pro Ala
 35 40 45

Leu Glu Gly Arg Thr Ser Phe Pro Glu Asp Thr Val Ile Thr Tyr Lys
 50 55 60

Cys Glu Glu Ser Phe Val Lys Ile Pro Gly Glu Lys Asp Ser Val Ile
 65 70 75 80

Cys Leu Lys Gly Ser Gln Trp Ser Asp Ile Glu Glu Phe Cys Asn Arg
 85 90 95

Ser Cys Glu Val Pro Thr Arg Leu Asn Ser Ala Ser Leu Lys Gln Pro
 100 105 110

Tyr Ile Thr Gln Asn Tyr Phe Pro Val Gly Thr Val Val Glu Tyr Glu
115 120 125

Cys Arg Pro Gly Tyr Arg Arg Glu Pro Ser Leu Ser Pro Lys Leu Thr
130 135 140

Cys Leu Gln Asn Leu Lys Trp Ser Thr Ala Val Glu Phe Cys Lys Lys
145 150 155 160

Lys Ser Cys Pro Asn Pro Gly Glu Ile Arg Asn Gly Gln Ile Asp Val
165 170 175

Pro Gly Gly Ile Leu Phe Gly Ala Thr Ile Ser Phe Ser Cys Asn Thr
180 185 190

Gly Tyr Lys Leu Phe Gly Ser Thr Ser Ser Phe Cys Leu Ile Ser Gly
195 200 205

Ser Ser Val Gln Trp Ser Asp Pro Leu Pro Glu Cys Arg Glu Ile Tyr
210 215 220

Cys Pro Ala Pro Pro Gln Ile Asp Asn Gly Ile Ile Gln Gly Glu Arg
225 230 235 240

Asp His Tyr Gly Tyr Arg Gln Ser Val Thr Tyr Ala Cys Asn Lys Gly
245 250 255

Phe Thr Met Ile Gly Glu His Ser Ile Tyr Cys Thr Val Asn Asn Asp
260 265 270

Glu Gly Glu Trp Ser Gly Pro Pro Pro Glu Cys Arg Gly Lys Ser Leu
275 280 285

Thr Ser Lys Val Pro Pro Thr Val Gln Lys Pro Thr Thr Val Asn Val
290 295 300

Pro Thr Thr Glu Val Ser Pro Thr Ser Gln Lys Thr Thr Thr Lys Thr
305 310 315 320

Thr Thr Pro Asn Ala Gln Ala Thr Arg Ser Thr Pro Val Ser Arg Thr
325 330 335

Thr Lys His Phe His Glu Thr Thr Pro Asn Lys Gly Ser Gly Thr Thr
340 345 350

Ser Gly Thr Thr Arg Leu Leu Ser Gly His Thr Cys Phe Thr Leu Thr
 355 360 365

Gly Leu Leu Gly Thr Leu Val Thr Met Gly Leu Leu Thr
 370 375 380

<210> 57

<211> 722

<212> PRT

<213> homo sapiens

<400> 57

Met Pro Leu His Gln Leu Gly Asp Lys Pro Leu Thr Phe Pro Ser Pro
 1 5 10 15

Asn Ser Ala Met Glu Asn Gly Leu Asp His Thr Pro Pro Ser Arg Arg
 20 25 30

Ala Ser Pro Gly Thr Pro Leu Ser Pro Gly Ser Leu Arg Ser Ala Ala
 35 40 45

His Ser Pro Leu Asp Thr Ser Lys Gln Pro Leu Cys Gln Leu Trp Ala
 50 55 60

Glu Lys His Gly Ala Arg Gly Thr His Glu Val Arg Tyr Val Ser Ala
 65 70 75 80

Gly Gln Ser Val Ala Cys Gly Trp Trp Ala Phe Ala Pro Pro Cys Leu
 85 90 95

Gln Val Leu Asn Thr Pro Lys Gly Ile Leu Phe Phe Leu Cys Ala Ala
 100 105 110

Ala Phe Leu Gln Gly Met Thr Val Asn Gly Phe Ile Asn Thr Val Ile
 115 120 125

Thr Ser Leu Glu Arg Arg Tyr Asp Leu His Ser Tyr Gln Ser Gly Leu
 130 135 140

Ile Ala Ser Ser Tyr Asp Ile Ala Ala Cys Leu Cys Leu Thr Phe Val
 145 150 155 160

Ser Tyr Phe Gly Gly Ser Gly His Lys Pro Arg Trp Leu Gly Trp Gly

165

170

175

Val Leu Leu Met Gly Thr Gly Ser Leu Val Phe Ala Leu Pro His Phe
 180 185 190

Thr Ala Gly Arg Tyr Glu Val Glu Leu Asp Ala Gly Val Arg Thr Cys
 195 200 205

Pro Ala Asn Pro Gly Ala Val Cys Ala Asp Ser Thr Ser Gly Leu Ser
 210 215 220

Arg Tyr Gln Leu Val Phe Met Leu Gly Gln Phe Leu His Gly Val Gly
 225 230 235 240

Ala Thr Pro Leu Tyr Thr Leu Gly Val Thr Tyr Leu Asp Glu Asn Val
 245 250 255

Lys Ser Ser Cys Ser Pro Val Tyr Ile Ala Ile Phe Tyr Thr Ala Ala
 260 265 270

Ile Leu Gly Pro Ala Ala Gly Tyr Leu Ile Gly Gly Ala Leu Leu Asn
 275 280 285

Ile Tyr Thr Glu Met Gly Arg Arg Thr Glu Leu Thr Thr Glu Ser Pro
 290 295 300

Leu Trp Val Gly Ala Trp Trp Val Gly Phe Leu Gly Ser Gly Ala Ala
 305 310 315 320

Ala Phe Phe Thr Ala Val Pro Ile Leu Gly Tyr Pro Arg Gln Leu Pro
 325 330 335

Gly Ser Gln Arg Tyr Ala Val Met Arg Ala Ala Glu Met His Gln Leu
 340 345 350

Lys Asp Ser Ser Arg Gly Glu Ala Ser Asn Pro Asp Phe Gly Lys Thr
 355 360 365

Ile Arg Asp Leu Pro Leu Ser Ile Trp Leu Leu Leu Lys Asn Pro Thr
 370 375 380

Phe Ile Leu Leu Cys Leu Ala Gly Ala Thr Glu Ala Thr Leu Ile Thr
 385 390 395 400

Gly Met Ser Thr Phe Ser Pro Lys Phe Leu Glu Ser Gln Phe Ser Leu
 405 410 415

Ser Ala Ser Glu Ala Ala Thr Leu Phe Gly Tyr Leu Val Val Pro Ala
 420 425 430

Gly Gly Gly Gly Thr Phe Leu Gly Gly Phe Phe Val Asn Lys Leu Arg
 435 440 445

Leu Arg Gly Ser Ala Val Ile Lys Phe Cys Leu Phe Cys Thr Val Val
 450 455 460

Ser Leu Leu Gly Ile Leu Val Phe Ser Leu His Cys Pro Ser Val Pro
 465 470 475 480

Met Ala Gly Val Thr Ala Ser Tyr Gly Gly Ser Leu Leu Pro Glu Gly
 485 490 495

His Leu Asn Leu Thr Ala Pro Cys Asn Ala Ala Cys Ser Cys Gln Pro
 500 505 510

Glu His Tyr Ser Pro Val Cys Gly Ser Asp Gly Leu Met Tyr Phe Ser
 515 520 525

Leu Cys His Ala Gly Cys Pro Ala Ala Thr Glu Thr Asn Val Asp Gly
 530 535 540

Gln Lys Val Tyr Arg Asp Cys Ser Cys Ile Pro Gln Asn Leu Ser Ser
 545 550 555 560

Gly Phe Gly His Ala Thr Ala Gly Lys Cys Thr Ser Thr Cys Gln Arg
 565 570 575

Lys Pro Leu Leu Leu Val Phe Ile Phe Val Val Ile Phe Phe Thr Phe
 580 585 590

Leu Ser Ser Ile Pro Ala Leu Thr Ala Thr Leu Arg Cys Val Arg Asp
 595 600 605

Pro Gln Arg Ser Phe Ala Leu Gly Ile Gln Trp Ile Val Val Arg Ile
 610 615 620

Leu Gly Gly Ile Pro Gly Pro Ile Ala Phe Gly Trp Val Ile Asp Lys
 625 630 635 640

Ala Cys Leu Leu Trp Gln Asp Gln Cys Gly Gln Gln Gly Ser Cys Leu
 645 650 655

Val Tyr Gln Asn Ser Ala Met Ser Arg Tyr Ile Leu Ile Met Gly Leu
660 665 670

Leu Tyr Lys Val Leu Gly Val Leu Phe Phe Ala Ile Ala Cys Phe Leu
675 680 685

Tyr Lys Pro Leu Ser Glu Ser Ser Asp Gly Leu Glu Thr Cys Leu Pro
690 695 700

Ser Gln Ser Ser Ala Pro Asp Ser Ala Thr Asp Ser Gln Leu Gln Ser
705 710 715 720

Ser Val

<210> 58

<211> 1212

<212> PRT

<213> homo sapiens

<400> 58

Met Glu Pro Arg Pro Thr Ala Pro Ser Ser Gly Ala Pro Gly Leu Ala
1 5 10 15

Gly Val Gly Glu Thr Pro Ser Ala Ala Ala Leu Ala Ala Ala Arg Val
20 25 30

Glu Leu Pro Gly Thr Ala Val Pro Ser Val Pro Glu Asp Ala Ala Pro
35 40 45

Ala Ser Arg Asp Gly Gly Gly Val Arg Asp Glu Gly Pro Ala Ala Ala
50 55 60

Gly Asp Gly Leu Gly Arg Pro Leu Gly Pro Thr Pro Ser Gln Ser Arg
65 70 75 80

Phe Gln Val Asp Leu Val Ser Glu Asn Ala Gly Arg Ala Ala Ala Ala
85 90 95

Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gly Ala Gly Ala Gly
100 105 110

Ala Lys Gln Thr Pro Ala Asp Gly Glu Ala Ser Gly Glu Ser Glu Pro
 115 120 125

Ala Lys Gly Ser Glu Glu Ala Lys Gly Arg Phe Arg Val Asn Phe Val
 130 135 140

Asp Pro Ala Ala Ser Ser Ser Ala Glu Asp Ser Leu Ser Asp Ala Ala
 145 150 155 160

Gly Val Gly Val Asp Gly Pro Asn Val Ser Phe Gln Asn Gly Gly Asp
 165 170 175

Thr Val Leu Ser Glu Gly Ser Ser Leu His Ser Gly Gly Gly Gly Gly
 180 185 190

Ser Gly His His Gln His Tyr Tyr Tyr Asp Thr His Thr Asn Thr Tyr
 195 200 205

Tyr Leu Arg Thr Phe Gly His Asn Thr Met Asp Ala Val Pro Arg Ile
 210 215 220

Asp His Tyr Arg His Thr Ala Ala Gln Leu Gly Glu Lys Leu Leu Arg
 225 230 235 240

Pro Ser Leu Ala Glu Leu His Asp Glu Leu Glu Lys Glu Pro Phe Glu
 245 250 255

Asp Gly Phe Ala Asn Gly Glu Glu Ser Thr Pro Thr Arg Asp Ala Val
 260 265 270

Val Thr Tyr Thr Ala Glu Ser Lys Gly Val Val Lys Phe Gly Trp Ile
 275 280 285

Lys Gly Val Leu Val Arg Cys Met Leu Asn Ile Trp Gly Val Met Leu
 290 295 300

Phe Ile Arg Leu Ser Trp Ile Val Gly Gln Ala Gly Ile Gly Leu Ser
 305 310 315 320

Val Leu Val Ile Met Met Ala Thr Val Val Thr Thr Ile Thr Gly Leu
 325 330 335

Ser Thr Ser Ala Ile Ala Thr Asn Gly Phe Val Arg Gly Gly Gly Ala
 340 345 350

Tyr Tyr Leu Ile Ser Arg Ser Leu Gly Pro Glu Phe Gly Gly Ala Ile

355

360

365

Gly Leu Ile Phe Ala Phe Ala Asn Ala Val Ala Val Ala Met Tyr Val
 370 375 380

Val Gly Phe Ala Glu Thr Val Val Glu Leu Leu Lys Glu His Ser Ile
 385 390 395 400

Leu Met Ile Asp Glu Ile Asn Asp Ile Arg Ile Ile Gly Ala Ile Thr
 405 410 415

Val Val Ile Leu Leu Gly Ile Ser Val Ala Gly Met Glu Trp Glu Ala
 420 425 430

Lys Ala Gln Ile Val Leu Leu Val Ile Leu Leu Leu Ala Ile Gly Asp
 435 440 445

Phe Val Ile Gly Thr Phe Ile Pro Leu Glu Ser Lys Lys Pro Lys Gly
 450 455 460

Phe Phe Gly Tyr Lys Ser Glu Ile Phe Asn Glu Asn Phe Gly Pro Asp
 465 470 475 480

Phe Arg Glu Glu Glu Thr Phe Phe Ser Val Phe Ala Ile Phe Phe Pro
 485 490 495

Ala Ala Thr Gly Ile Leu Ala Gly Ala Asn Ile Ser Gly Asp Leu Ala
 500 505 510

Asp Pro Gln Ser Ala Ile Pro Lys Gly Thr Leu Leu Ala Ile Leu Ile
 515 520 525

Thr Thr Leu Val Tyr Val Gly Ile Ala Val Ser Val Gly Ser Cys Val
 530 535 540

Val Arg Asp Ala Thr Gly Asn Val Asn Asp Thr Ile Val Thr Glu Leu
 545 550 555 560

Thr Asn Cys Thr Ser Ala Ala Cys Lys Leu Asn Phe Asp Phe Ser Ser
 565 570 575

Cys Glu Ser Ser Pro Cys Ser Tyr Gly Leu Met Asn Asn Phe Gln Val
 580 585 590

Met Ser Met Val Ser Gly Phe Thr Pro Leu Ile Ser Ala Gly Ile Phe
 595 600 605

Ser Ala Thr Leu Ser Ser Ala Leu Ala Ser Leu Val Ser Ala Pro Lys
610 615 620

Ile Phe Gln Ala Leu Cys Lys Asp Asn Ile Tyr Pro Ala Phe Gln Met
625 630 635 640

Phe Ala Lys Gly Tyr Gly Lys Asn Asn Glu Pro Leu Arg Gly Tyr Ile
645 650 655

Leu Thr Phe Leu Ile Ala Leu Gly Phe Ile Leu Ile Ala Glu Leu Asn
660 665 670

Val Ile Ala Pro Ile Ile Ser Asn Phe Phe Leu Ala Ser Tyr Ala Leu
675 680 685

Ile Asn Phe Ser Val Phe His Ala Ser Leu Ala Lys Ser Pro Gly Trp
690 695 700

Arg Pro Ala Phe Lys Tyr Tyr Asn Met Trp Ile Ser Leu Leu Gly Ala
705 710 715 720

Ile Leu Cys Cys Ile Val Met Phe Val Ile Asn Trp Trp Ala Ala Leu
725 730 735

Leu Thr Tyr Val Ile Val Leu Gly Leu Tyr Ile Tyr Val Thr Tyr Lys
740 745 750

Lys Pro Asp Val Asn Trp Gly Ser Ser Thr Gln Ala Leu Thr Tyr Leu
755 760 765

Asn Ala Leu Gln His Ser Ile Arg Leu Ser Gly Val Glu Asp His Val
770 775 780

Lys Asn Phe Arg Pro Gln Cys Leu Val Met Thr Gly Ala Pro Asn Ser
785 790 795 800

Arg Pro Ala Leu Leu His Leu Val His Asp Phe Thr Lys Asn Val Gly
805 810 815

Leu Met Ile Cys Gly His Val His Met Gly Pro Arg Arg Gln Ala Met
820 825 830

Lys Glu Met Ser Ile Asp Gln Ala Lys Tyr Gln Arg Trp Leu Ile Lys
835 840 845

Asn Lys Met Lys Ala Phe Tyr Ala Pro Val His Ala Asp Asp Leu Arg
850 855 860

Glu Gly Ala Gln Tyr Leu Met Gln Ala Ala Gly Leu Gly Arg Met Lys
865 870 875 880

Pro Asn Thr Leu Val Leu Gly Phe Lys Lys Asp Trp Leu Gln Ala Asp
885 890 895

Met Arg Asp Val Asp Met Tyr Ile Asn Leu Phe His Asp Ala Phe Asp
900 905 910

Ile Gln Tyr Gly Val Val Val Ile Arg Leu Lys Glu Gly Leu Asp Ile
915 920 925

Ser His Leu Gln Gly Gln Glu Glu Leu Leu Ser Ser Gln Glu Lys Ser
930 935 940

Pro Gly Thr Lys Asp Val Val Val Ser Val Glu Tyr Ser Lys Lys Ser
945 950 955 960

Asp Leu Asp Thr Ser Lys Pro Leu Ser Glu Lys Pro Ile Thr His Lys
965 970 975

Val Glu Glu Glu Asp Gly Lys Thr Ala Thr Gln Pro Leu Leu Lys Lys
980 985 990

Glu Ser Lys Gly Pro Ile Val Pro Leu Asn Val Ala Asp Gln Lys Leu
995 1000 1005

Leu Glu Ala Ser Thr Gln Phe Gln Lys Lys Gln Gly Lys Asn Thr
1010 1015 1020

Ile Asp Val Trp Trp Leu Phe Asp Asp Gly Gly Leu Thr Leu Leu
1025 1030 1035

Ile Pro Tyr Leu Leu Thr Thr Lys Lys Lys Trp Lys Asp Cys Lys
1040 1045 1050

Ile Arg Val Phe Ile Gly Gly Lys Ile Asn Arg Ile Asp His Asp
1055 1060 1065

Arg Arg Ala Met Ala Thr Leu Leu Ser Lys Phe Arg Ile Asp Phe
1070 1075 1080

Ser Asp Ile Met Val Leu Gly Asp Ile Asn Thr Lys Pro Lys Lys
1085 1090 1095

Glu Asn Ile Ile Ala Phe Glu Glu Ile Ile Glu Pro Tyr Arg Leu
1100 1105 1110

His Glu Asp Asp Lys Glu Gln Asp Ile Ala Asp Lys Met Lys Glu
1115 1120 1125

Asp Glu Pro Trp Arg Ile Thr Asp Asn Glu Leu Glu Leu Tyr Lys
1130 1135 1140

Thr Lys Thr Tyr Arg Gln Ile Arg Leu Asn Glu Leu Leu Lys Glu
1145 1150 1155

His Ser Ser Thr Ala Asn Ile Ile Val Met Ser Leu Pro Val Ala
1160 1165 1170

Arg Lys Gly Ala Val Ser Ser Ala Leu Tyr Met Ala Trp Leu Glu
1175 1180 1185

Ala Leu Ser Lys Asp Leu Pro Pro Ile Leu Leu Val Arg Gly Asn
1190 1195 1200

His Gln Ser Val Leu Thr Phe Tyr Ser
1205 1210

<210> 59

<211> 475

<212> PRT

<213> homo sapiens

<400> 59

Met Thr Pro Gly Thr Gln Ser Pro Phe Phe Leu Leu Leu Leu Thr
1 5 10 15

Val Leu Thr Val Val Thr Gly Ser Gly His Ala Ser Ser Thr Pro Gly
20 25 30

Gly Glu Lys Glu Thr Ser Ala Thr Gln Arg Ser Ser Val Pro Ser Ser
35 40 45

Thr Glu Lys Asn Ala Val Ser Met Thr Ser Ser Val Leu Ser Ser His

50

55

60

Ser Pro Gly Ser Gly Ser Ser Thr Thr Gln Gly Gln Asp Val Thr Leu
65 70 75 80

Ala Pro Ala Thr Glu Pro Ala Ser Gly Ser Ala Ala Thr Trp Gly Gln
85 90 95

Asp Val Thr Ser Val Pro Val Thr Arg Pro Ala Leu Gly Ser Thr Thr
100 105 110

Pro Pro Ala His Asp Val Thr Ser Ala Pro Asp Asn Lys Pro Ala Pro
115 120 125

Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser Ala Pro Asp Thr
130 135 140

Arg Pro Ala Pro Gly Ser Thr Ala Pro Pro Ala His Gly Val Thr Ser
145 150 155 160

Ala Pro Asp Asn Arg Pro Ala Leu Gly Ser Thr Ala Pro Pro Val His
165 170 175

Asn Val Thr Ser Ala Ser Gly Ser Ala Ser Gly Ser Ala Ser Thr Leu
180 185 190

Val His Asn Gly Thr Ser Ala Arg Ala Thr Thr Thr Pro Ala Ser Lys
195 200 205

Ser Thr Pro Phe Ser Ile Pro Ser His His Ser Asp Thr Pro Thr Thr
210 215 220

Leu Ala Ser His Ser Thr Lys Thr Asp Ala Ser Ser Thr His His Ser
225 230 235 240

Thr Val Pro Pro Leu Thr Ser Ser Asn His Ser Thr Ser Pro Gln Leu
245 250 255

Ser Thr Gly Val Ser Phe Phe Phe Leu Ser Phe His Ile Ser Asn Leu
260 265 270

Gln Phe Asn Ser Ser Leu Glu Asp Pro Ser Thr Asp Tyr Tyr Gln Glu
275 280 285

Leu Gln Arg Asp Ile Ser Glu Met Phe Leu Gln Ile Tyr Lys Gln Gly
290 295 300

Gly Phe Leu Gly Leu Ser Asn Ile Lys Phe Arg Pro Gly Ser Val Val
305 310 315 320

Val Gln Leu Thr Leu Ala Phe Arg Glu Gly Thr Ile Asn Val His Asp
325 330 335

Val Glu Thr Gln Phe Asn Gln Tyr Lys Thr Glu Ala Ala Ser Arg Tyr
340 345 350

Asn Leu Thr Ile Ser Asp Val Ser Val Ser Asp Val Pro Phe Pro Phe
355 360 365

Ser Ala Gln Ser Gly Ala Gly Val Pro Gly Trp Gly Ile Ala Leu Leu
370 375 380

Val Leu Val Cys Val Leu Val Ala Leu Ala Ile Val Tyr Leu Ile Ala
385 390 395 400

Leu Ala Val Cys Gln Cys Arg Arg Lys Asn Tyr Gly Gln Leu Asp Ile
405 410 415

Phe Pro Ala Arg Asp Thr Tyr His Pro Met Ser Glu Tyr Pro Thr Tyr
420 425 430

His Thr His Gly Arg Tyr Val Pro Pro Ser Ser Thr Asp Arg Ser Pro
435 440 445

Tyr Glu Lys Val Ser Ala Gly Asn Gly Gly Ser Ser Leu Ser Tyr Thr
450 455 460

Asn Pro Ala Val Ala Ala Thr Ser Ala Asn Leu
465 470 475

<210> 60

<211> 561

<212> PRT

<213> homo sapiens

<400> 60

Met Val Leu Gly Pro Glu Gln Lys Met Ser Asp Asp Ser Val Ser Gly
1 5 10 15

Asp His Gly Glu Ser Ala Ser Leu Gly Asn Ile Asn Pro Ala Tyr Ser
 20 25 30

Asn Pro Ser Leu Ser Gln Ser Pro Gly Asp Ser Glu Glu Tyr Phe Ala
 35 40 45

Thr Tyr Phe Asn Glu Lys Ile Ser Ile Pro Glu Glu Glu Tyr Ser Cys
 50 55 60

Phe Ser Phe Arg Lys Leu Trp Ala Phe Thr Gly Pro Gly Phe Leu Met
 65 70 75 80

Ser Ile Ala Tyr Leu Asp Pro Gly Asn Ile Glu Ser Asp Leu Gln Ser
 85 90 95

Gly Ala Val Ala Gly Phe Lys Leu Leu Trp Ile Leu Leu Leu Ala Thr
 100 105 110

Leu Val Gly Leu Leu Leu Gln Arg Leu Ala Ala Arg Leu Gly Val Val
 115 120 125

Thr Gly Leu His Leu Ala Glu Val Cys His Arg Gln Tyr Pro Lys Val
 130 135 140

Pro Arg Val Ile Leu Trp Leu Met Val Glu Leu Ala Ile Ile Gly Ser
 145 150 155 160

Asp Met Gln Glu Val Ile Gly Ser Ala Ile Ala Ile Asn Leu Leu Ser
 165 170 175

Val Gly Arg Ile Pro Leu Trp Gly Gly Val Leu Ile Thr Ile Ala Asp
 180 185 190

Thr Phe Val Phe Leu Phe Leu Asp Lys Tyr Gly Leu Arg Lys Leu Glu
 195 200 205

Ala Phe Phe Gly Phe Leu Ile Thr Ile Met Ala Leu Thr Phe Gly Tyr
 210 215 220

Glu Tyr Val Thr Val Lys Pro Ser Gln Ser Gln Val Leu Lys Gly Met
 225 230 235 240

Phe Val Pro Ser Cys Ser Gly Cys Arg Thr Pro Gln Ile Glu Gln Ala
 245 250 255

Val Gly Ile Val Gly Ala Val Ile Met Pro His Asn Met Tyr Leu His
 260 265 270

Ser Ala Leu Val Lys Ser Arg Gln Val Asn Arg Asn Asn Lys Gln Glu
 275 280 285

Val Arg Glu Ala Asn Lys Tyr Phe Phe Ile Glu Ser Cys Ile Ala Leu
 290 295 300

Phe Val Ser Phe Ile Ile Asn Val Phe Val Val Ser Val Phe Ala Glu
 305 310 315 320

Ala Phe Phe Gly Lys Thr Asn Glu Gln Val Val Glu Val Cys Thr Asn
 325 330 335

Thr Ser Ser Pro His Ala Gly Leu Phe Pro Lys Asp Asn Ser Thr Leu
 340 345 350

Ala Val Asp Ile Tyr Lys Gly Gly Val Val Leu Gly Cys Tyr Phe Gly
 355 360 365

Pro Ala Ala Leu Tyr Ile Trp Ala Val Gly Ile Leu Ala Ala Gly Gln
 370 375 380

Ser Ser Thr Met Thr Gly Thr Tyr Ser Gly Gln Phe Val Met Glu Gly
 385 390 395 400

Phe Leu Asn Leu Lys Trp Ser Arg Phe Ala Arg Val Val Leu Thr Arg
 405 410 415

Ser Ile Ala Ile Ile Pro Thr Leu Leu Val Ala Val Phe Gln Asp Val
 420 425 430

Glu His Leu Thr Gly Met Asn Asp Phe Leu Asn Val Leu Gln Ser Leu
 435 440 445

Gln Leu Pro Phe Ala Leu Ile Pro Ile Leu Thr Phe Thr Ser Leu Arg
 450 455 460

Pro Val Met Ser Asp Phe Ala Asn Gly Leu Gly Trp Arg Ile Ala Gly
 465 470 475 480

Gly Ile Leu Val Leu Ile Ile Cys Ser Ile Asn Met Tyr Phe Val Val
 485 490 495

Val Tyr Val Arg Asp Leu Gly His Val Ala Leu Tyr Val Val Ala Ala

500

505

510

Val Val Ser Val Ala Tyr Leu Gly Phe Val Phe Tyr Leu Gly Trp Gln
 515 520 525

Cys Leu Ile Ala Leu Gly Met Ser Phe Leu Asp Cys Gly His Thr Val
 530 535 540

Ser Ile Ser Lys Gly Leu Leu Thr Glu Glu Ala Thr Arg Gly Tyr Val
 545 550 555 560

Lys

<210> 61

<211> 1752

<212> PRT

<213> homo sapiens

<400> 61

Met Ala Gly Pro Arg Pro Ser Pro Trp Ala Arg Leu Leu Leu Ala Ala
 1 5 10 15

Leu Ile Ser Val Ser Leu Ser Gly Thr Leu Ala Asn Arg Cys Lys Lys
 20 25 30

Ala Pro Val Lys Ser Cys Thr Glu Cys Val Arg Val Asp Lys Asp Cys
 35 40 45

Ala Tyr Cys Thr Asp Glu Met Phe Arg Asp Arg Arg Cys Asn Thr Gln
 50 55 60

Ala Glu Leu Leu Ala Ala Gly Cys Gln Arg Glu Ser Ile Val Val Met
 65 70 75 80

Glu Ser Ser Phe Gln Ile Thr Glu Glu Thr Gln Ile Asp Thr Thr Leu
 85 90 95

Arg Arg Ser Gln Met Ser Pro Gln Gly Leu Arg Val Arg Leu Arg Pro
 100 105 110

Gly Glu Glu Arg His Phe Glu Leu Glu Val Phe Glu Pro Leu Glu Ser
 115 120 125

Pro Val Asp Leu Tyr Ile Leu Met Asp Phe Ser Asn Ser Met Ser Asp
 130 135 140

Asp Leu Asp Asn Leu Lys Lys Met Gly Gln Asn Leu Ala Arg Val Leu
 145 150 155 160

Ser Gln Leu Thr Ser Asp Tyr Thr Ile Gly Phe Gly Lys Phe Val Asp
 165 170 175

Lys Val Ser Val Pro Gln Thr Asp Met Arg Pro Glu Lys Leu Lys Glu
 180 185 190

Pro Trp Pro Asn Ser Asp Pro Pro Phe Ser Phe Lys Asn Val Ile Ser
 195 200 205

Leu Thr Glu Asp Val Asp Glu Phe Arg Asn Lys Leu Gln Gly Glu Arg
 210 215 220

Ile Ser Gly Asn Leu Asp Ala Pro Glu Gly Gly Phe Asp Ala Ile Leu
 225 230 235 240

Gln Thr Ala Val Cys Thr Arg Asp Ile Gly Trp Arg Pro Asp Ser Thr
 245 250 255

His Leu Leu Val Phe Ser Thr Glu Ser Ala Phe His Tyr Glu Ala Asp
 260 265 270

Gly Ala Asn Val Leu Ala Gly Ile Met Ser Arg Asn Asp Glu Arg Cys
 275 280 285

His Leu Asp Thr Thr Gly Thr Tyr Thr Gln Tyr Arg Thr Gln Asp Tyr
 290 295 300

Pro Ser Val Pro Thr Leu Val Arg Leu Leu Ala Lys His Asn Ile Ile
 305 310 315 320

Pro Ile Phe Ala Val Thr Asn Tyr Ser Tyr Ser Tyr Tyr Glu Lys Leu
 325 330 335

His Thr Tyr Phe Pro Val Ser Ser Leu Gly Val Leu Gln Glu Asp Ser
 340 345 350

Ser Asn Ile Val Glu Leu Leu Glu Glu Ala Phe Asn Arg Ile Arg Ser
 355 360 365

Asn Leu Asp Ile Arg Ala Leu Asp Ser Pro Arg Gly Leu Arg Thr Glu
 370 375 380

Val Thr Ser Lys Met Phe Gln Lys Thr Arg Thr Gly Ser Phe His Ile
 385 390 395 400

Arg Arg Gly Glu Val Gly Ile Tyr Gln Val Gln Leu Arg Ala Leu Glu
 405 410 415

His Val Asp Gly Thr His Val Cys Gln Leu Pro Glu Asp Gln Lys Gly
 420 425 430

Asn Ile His Leu Lys Pro Ser Phe Ser Asp Gly Leu Lys Met Asp Ala
 435 440 445

Gly Ile Ile Cys Asp Val Cys Thr Cys Glu Leu Gln Lys Glu Val Arg
 450 455 460

Ser Ala Arg Cys Ser Phe Asn Gly Asp Phe Val Cys Gly Gln Cys Val
 465 470 475 480

Cys Ser Glu Gly Trp Ser Gly Gln Thr Cys Asn Cys Ser Thr Gly Ser
 485 490 495

Leu Ser Asp Ile Gln Pro Cys Leu Arg Glu Gly Glu Asp Lys Pro Cys
 500 505 510

Ser Gly Arg Gly Glu Cys Gln Cys Gly His Cys Val Cys Tyr Gly Glu
 515 520 525

Gly Arg Tyr Glu Gly Gln Phe Cys Glu Tyr Asp Asn Phe Gln Cys Pro
 530 535 540

Arg Thr Ser Gly Phe Leu Cys Asn Asp Arg Gly Arg Cys Ser Met Gly
 545 550 555 560

Gln Cys Val Cys Glu Pro Gly Trp Thr Gly Pro Ser Cys Asp Cys Pro
 565 570 575

Leu Ser Asn Ala Thr Cys Ile Asp Ser Asn Gly Gly Ile Cys Asn Gly
 580 585 590

Arg Gly His Cys Glu Cys Gly Arg Cys His Cys His Gln Gln Ser Leu
 595 600 605

Tyr Thr Asp Thr Ile Cys Glu Ile Asn Tyr Ser Ala Ile His Pro Gly
610 615 620

Leu Cys Glu Asp Leu Arg Ser Cys Val Gln Cys Gln Ala Trp Gly Thr
625 630 635 640

Gly Glu Lys Lys Gly Arg Thr Cys Glu Glu Cys Asn Phe Lys Val Lys
645 650 655

Met Val Asp Glu Leu Lys Arg Ala Glu Glu Val Val Val Arg Cys Ser
660 665 670

Phe Arg Asp Glu Asp Asp Asp Cys Thr Tyr Ser Tyr Thr Met Glu Gly
675 680 685

Asp Gly Ala Pro Gly Pro Asn Ser Thr Val Leu Val His Lys Lys Lys
690 695 700

Asp Cys Pro Pro Gly Ser Phe Trp Trp Leu Ile Pro Leu Leu Leu Leu
705 710 715 720

Leu Leu Pro Leu Leu Ala Leu Leu Leu Leu Leu Cys Trp Lys Tyr Cys
725 730 735

Ala Cys Cys Lys Ala Cys Leu Ala Leu Leu Pro Cys Cys Asn Arg Gly
740 745 750

His Met Val Gly Phe Lys Glu Asp His Tyr Met Leu Arg Glu Asn Leu
755 760 765

Met Ala Ser Asp His Leu Asp Thr Pro Met Leu Arg Ser Gly Asn Leu
770 775 780

Lys Gly Arg Asp Val Val Arg Trp Lys Val Thr Asn Asn Met Gln Arg
785 790 795 800

Pro Gly Phe Ala Thr His Ala Ala Ser Ile Asn Pro Thr Glu Leu Val
805 810 815

Pro Tyr Gly Leu Ser Leu Arg Leu Ala Arg Leu Cys Thr Glu Asn Leu
820 825 830

Leu Lys Pro Asp Thr Arg Glu Cys Ala Gln Leu Arg Gln Glu Val Glu
835 840 845

Glu Asn Leu Asn Glu Val Tyr Arg Gln Ile Ser Gly Val His Lys Leu

850

855

860

Gln Gln Thr Lys Phe Arg Gln Gln Pro Asn Ala Gly Lys Lys Gln Asp
 865 870 875 880

His Thr Ile Val Asp Thr Val Leu Met Ala Pro Arg Ser Ala Lys Pro
 885 890 895

Ala Leu Leu Lys Leu Thr Glu Lys Gln Val Glu Gln Arg Ala Phe His
 900 905 910

Asp Leu Lys Val Ala Pro Gly Tyr Tyr Thr Leu Thr Ala Asp Gln Asp
 915 920 925

Ala Arg Gly Met Val Glu Phe Gln Glu Gly Val Glu Leu Val Asp Val
 930 935 940

Arg Val Pro Leu Phe Ile Arg Pro Glu Asp Asp Asp Glu Lys Gln Leu
 945 950 955 960

Leu Val Glu Ala Ile Asp Val Pro Ala Gly Thr Ala Thr Leu Gly Arg
 965 970 975

Arg Leu Val Asn Ile Thr Ile Ile Lys Glu Gln Ala Arg Asp Val Val
 980 985 990

Ser Phe Glu Gln Pro Glu Phe Ser Val Ser Arg Gly Asp Gln Val Ala
 995 1000 1005

Arg Ile Pro Val Ile Arg Arg Val Leu Asp Gly Gly Lys Ser Gln
 1010 1015 1020

Val Ser Tyr Arg Thr Gln Asp Gly Thr Ala Gln Gly Asn Arg Asp
 1025 1030 1035

Tyr Ile Pro Val Glu Gly Glu Leu Leu Phe Gln Pro Gly Glu Ala
 1040 1045 1050

Trp Lys Glu Leu Gln Val Lys Leu Leu Glu Leu Gln Glu Val Asp
 1055 1060 1065

Ser Leu Leu Arg Gly Arg Gln Val Arg Arg Phe His Val Gln Leu
 1070 1075 1080

Ser Asn Pro Lys Phe Gly Ala His Leu Gly Gln Pro His Ser Thr
 1085 1090 1095

Thr Ile	Ile Ile Arg Asp	Pro	Asp Glu Leu Asp	Arg	Ser Phe Thr
1100		1105		1110	
Ser Gln	Met Leu Ser Ser	Gln	Pro Pro Pro His	Gly	Asp Leu Gly
1115		1120		1125	
Ala Pro	Gln Asn Pro Asn	Ala	Lys Ala Ala Gly	Ser	Arg Lys Ile
1130		1135		1140	
His Phe	Asn Trp Leu Pro	Pro	Ser Gly Lys Pro	Met	Gly Tyr Arg
1145		1150		1155	
Val Lys	Tyr Trp Ile Gln	Gly	Asp Ser Glu Ser	Glu	Ala His Leu
1160		1165		1170	
Leu Asp	Ser Lys Val Pro	Ser	Val Glu Leu Thr	Asn	Leu Tyr Pro
1175		1180		1185	
Tyr Cys	Asp Tyr Glu Met	Lys	Val Cys Ala Tyr	Gly	Ala Gln Gly
1190		1195		1200	
Glu Gly	Pro Tyr Ser Ser	Leu	Val Ser Cys Arg	Thr	His Gln Glu
1205		1210		1215	
Val Pro	Ser Glu Pro Gly	Arg	Leu Ala Phe Asn	Val	Val Ser Ser
1220		1225		1230	
Thr Val	Thr Gln Leu Ser	Trp	Ala Glu Pro Ala	Glu	Thr Asn Gly
1235		1240		1245	
Glu Ile	Thr Ala Tyr Glu	Val	Cys Tyr Gly Leu	Val	Asn Asp Asp
1250		1255		1260	
Asn Arg	Pro Ile Gly Pro	Met	Lys Lys Val Leu	Val	Asp Asn Pro
1265		1270		1275	
Lys Asn	Arg Met Leu Leu	Ile	Glu Asn Leu Arg	Glu	Ser Gln Pro
1280		1285		1290	
Tyr Arg	Tyr Thr Val Lys	Ala	Arg Asn Gly Ala	Gly	Trp Gly Pro
1295		1300		1305	
Glu Arg	Glu Ala Ile Ile	Asn	Leu Ala Thr Gln	Pro	Lys Arg Pro
1310		1315		1320	

Met Ser Ile Pro Ile Ile Pro Asp Ile Pro Ile Val Asp Ala Gln
1325 1330 1335

Ser Gly Glu Asp Tyr Asp Ser Phe Leu Met Tyr Ser Asp Asp Val
1340 1345 1350

Leu Arg Ser Pro Ser Gly Ser Gln Arg Pro Ser Val Ser Asp Asp
1355 1360 1365

Thr Glu His Leu Val Asn Gly Arg Met Asp Phe Ala Phe Pro Gly
1370 1375 1380

Ser Thr Asn Ser Leu His Arg Met Thr Thr Thr Ser Ala Ala Ala
1385 1390 1395

Tyr Gly Thr His Leu Ser Pro His Val Pro His Arg Val Leu Ser
1400 1405 1410

Thr Ser Ser Thr Leu Thr Arg Asp Tyr Asn Ser Leu Thr Arg Ser
1415 1420 1425

Glu His Ser His Ser Thr Thr Leu Pro Arg Asp Tyr Ser Thr Leu
1430 1435 1440

Thr Ser Val Ser Ser His Asp Ser Arg Leu Thr Ala Gly Val Pro
1445 1450 1455

Asp Thr Pro Thr Arg Leu Val Phe Ser Ala Leu Gly Pro Thr Ser
1460 1465 1470

Leu Arg Val Ser Trp Gln Glu Pro Arg Cys Glu Arg Pro Leu Gln
1475 1480 1485

Gly Tyr Ser Val Glu Tyr Gln Leu Leu Asn Gly Gly Glu Leu His
1490 1495 1500

Arg Leu Asn Ile Pro Asn Pro Ala Gln Thr Ser Val Val Val Glu
1505 1510 1515

Asp Leu Leu Pro Asn His Ser Tyr Val Phe Arg Val Arg Ala Gln
1520 1525 1530

Ser Gln Glu Gly Trp Gly Arg Glu Arg Glu Gly Val Ile Thr Ile
1535 1540 1545

Glu Ser Gln Val His Pro Gln Ser Pro Leu Cys Pro Leu Pro Gly
1550 1555 1560

Ser Ala Phe Thr Leu Ser Thr Pro Ser Ala Pro Gly Pro Leu Val
1565 1570 1575

Phe Thr Ala Leu Ser Pro Asp Ser Leu Gln Leu Ser Trp Glu Arg
1580 1585 1590

Pro Arg Arg Pro Asn Gly Asp Ile Val Gly Tyr Leu Val Thr Cys
1595 1600 1605

Glu Met Ala Gln Gly Gly Gly Pro Ala Thr Ala Phe Arg Val Asp
1610 1615 1620

Gly Asp Ser Pro Glu Ser Arg Leu Thr Val Pro Gly Leu Ser Glu
1625 1630 1635

Asn Val Pro Tyr Lys Phe Lys Val Gln Ala Arg Thr Thr Glu Gly
1640 1645 1650

Phe Gly Pro Glu Arg Glu Gly Ile Ile Thr Ile Glu Ser Gln Asp
1655 1660 1665

Gly Gly Pro Phe Pro Gln Leu Gly Ser Arg Ala Gly Leu Phe Gln
1670 1675 1680

His Pro Leu Gln Ser Glu Tyr Ser Ser Ile Thr Thr Thr His Thr
1685 1690 1695

Ser Ala Thr Glu Pro Phe Leu Val Asp Gly Pro Thr Leu Gly Ala
1700 1705 1710

Gln His Leu Glu Ala Gly Gly Ser Leu Thr Arg His Val Thr Gln
1715 1720 1725

Glu Phe Val Ser Arg Thr Leu Thr Thr Ser Gly Thr Leu Ser Thr
1730 1735 1740

His Met Asp Gln Gln Phe Phe Gln Thr
1745 1750

<210> 62

<211> 333

<212> PRT

<213> homo sapiens

<400> 62

Met Ala Val Arg Arg Asp Ser Val Trp Lys Tyr Cys Trp Gly Val Leu
1 5 10 15

Met Val Leu Cys Arg Thr Ala Ile Ser Lys Ser Ile Val Leu Glu Pro
20 25 30

Ile Tyr Trp Asn Ser Ser Asn Ser Lys Phe Leu Pro Gly Gln Gly Leu
35 40 45

Val Leu Tyr Pro Gln Ile Gly Asp Lys Leu Asp Ile Ile Cys Pro Lys
50 55 60

Val Asp Ser Lys Thr Val Gly Gln Tyr Glu Tyr Tyr Lys Val Tyr Met
65 70 75 80

Val Asp Lys Asp Gln Ala Asp Arg Cys Thr Ile Lys Lys Glu Asn Thr
85 90 95

Pro Leu Leu Asn Cys Ala Lys Pro Asp Gln Asp Ile Lys Phe Thr Ile
100 105 110

Lys Phe Gln Glu Phe Ser Pro Asn Leu Trp Gly Leu Glu Phe Gln Lys
115 120 125

Asn Lys Asp Tyr Tyr Ile Ile Ser Thr Ser Asn Gly Ser Leu Glu Gly
130 135 140

Leu Asp Asn Gln Glu Gly Gly Val Cys Gln Thr Arg Ala Met Lys Ile
145 150 155 160

Leu Met Lys Val Gly Gln Asp Ala Ser Ser Ala Gly Ser Thr Arg Asn
165 170 175

Lys Asp Pro Thr Arg Arg Pro Glu Leu Glu Ala Gly Thr Asn Gly Arg
180 185 190

Ser Ser Thr Thr Ser Pro Phe Val Lys Pro Asn Pro Gly Ser Ser Thr
195 200 205

Asp Gly Asn Ser Ala Gly His Ser Gly Asn Asn Ile Leu Gly Ser Glu

210 215 220
 Val Ala Leu Phe Ala Gly Ile Ala Ser Gly Cys Ile Ile Phe Ile Val
 225 230 235 240
 Ile Ile Ile Thr Leu Val Val Leu Leu Leu Lys Tyr Arg Arg Arg His
 245 250 255
 Arg Lys His Ser Pro Gln His Thr Thr Thr Leu Ser Leu Ser Thr Leu
 260 265 270
 Ala Thr Pro Lys Arg Ser Gly Asn Asn Asn Gly Ser Glu Pro Ser Asp
 275 280 285
 Ile Ile Ile Pro Leu Arg Thr Ala Asp Ser Val Phe Cys Pro His Tyr
 290 295 300
 Glu Lys Val Ser Gly Asp Tyr Gly His Pro Val Tyr Ile Val Gln Glu
 305 310 315 320
 Met Pro Pro Gln Ser Pro Ala Asn Ile Tyr Tyr Lys Val
 325 330

<210> 63

<211> 245

<212> PRT

<213> homo sapiens

<400> 63

Met Ala Ser Pro Ser Arg Arg Leu Gln Thr Lys Pro Val Ile Thr Cys
 1 5 10 15
 Phe Lys Ser Val Leu Leu Ile Tyr Thr Phe Ile Phe Trp Ile Thr Gly
 20 25 30
 Val Ile Leu Leu Ala Val Gly Ile Trp Gly Lys Val Ser Leu Glu Asn
 35 40 45
 Tyr Phe Ser Leu Leu Asn Glu Lys Ala Thr Asn Val Pro Phe Val Leu
 50 55 60
 Ile Ala Thr Gly Thr Val Ile Ile Leu Leu Gly Thr Phe Gly Cys Phe
 65 70 75 80

Ala Thr Cys Arg Ala Ser Ala Trp Met Leu Lys Leu Tyr Ala Met Phe
85 90 95

Leu Thr Leu Val Phe Leu Val Glu Leu Val Ala Ala Ile Val Gly Phe
100 105 110

Val Phe Arg His Glu Ile Lys Asn Ser Phe Lys Asn Asn Tyr Glu Lys
115 120 125

Ala Leu Lys Gln Tyr Asn Ser Thr Gly Asp Tyr Arg Ser His Ala Val
130 135 140

Asp Lys Ile Gln Asn Thr Leu His Cys Cys Gly Val Thr Asp Tyr Arg
145 150 155 160

Asp Trp Thr Asp Thr Asn Tyr Tyr Ser Glu Lys Gly Phe Pro Lys Ser
165 170 175

Cys Cys Lys Leu Glu Asp Cys Thr Pro Gln Arg Asp Ala Asp Lys Val
180 185 190

Asn Asn Glu Gly Cys Phe Ile Lys Val Met Thr Ile Ile Glu Ser Glu
195 200 205

Met Gly Val Val Ala Gly Ile Ser Phe Gly Val Ala Cys Phe Gln Leu
210 215 220

Ile Gly Ile Phe Leu Ala Tyr Cys Leu Ser Arg Ala Ile Thr Asn Asn
225 230 235 240

Gln Tyr Glu Ile Val
245

<210> 64

<211> 349

<212> PRT

<213> homo sapiens

<400> 64

Met Gly Pro Ile Ser Ala Pro Ser Cys Arg Trp Arg Ile Pro Trp Gln
1 5 10 15

Gly Leu Leu Leu Thr Ala Ser Leu Phe Thr Phe Trp Asn Pro Pro Thr
 20 25 30

Thr Ala Gln Leu Thr Ile Glu Ala Val Pro Ser Asn Ala Ala Glu Gly
 35 40 45

Lys Glu Val Leu Leu Leu Val His Asn Leu Pro Gln Asp Pro Arg Gly
 50 55 60

Tyr Asn Trp Tyr Lys Gly Glu Thr Val Asp Ala Asn Arg Arg Ile Ile
 65 70 75 80

Gly Tyr Val Ile Ser Asn Gln Gln Ile Thr Pro Gly Pro Ala Tyr Ser
 85 90 95

Asn Arg Glu Thr Ile Tyr Pro Asn Ala Ser Leu Leu Met Arg Asn Val
 100 105 110

Thr Arg Asn Asp Thr Gly Ser Tyr Thr Leu Gln Val Ile Lys Leu Asn
 115 120 125

Leu Met Ser Glu Glu Val Thr Gly Gln Phe Ser Val His Pro Glu Thr
 130 135 140

Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Asn Pro Val Glu Asp Lys
 145 150 155 160

Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Thr Gln Asn Thr Thr Tyr
 165 170 175

Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser Pro Arg Leu Gln
 180 185 190

Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Leu Ser Val Thr Arg Asn
 195 200 205

Asp Val Gly Pro Tyr Glu Cys Glu Ile Gln Asn Pro Ala Ser Ala Asn
 210 215 220

Phe Ser Asp Pro Val Thr Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro
 225 230 235 240

Thr Ile Ser Pro Ser Asp Thr Tyr Tyr His Ala Gly Val Asn Leu Asn
 245 250 255

Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ser Gln Tyr Ser Trp Ser
 260 265 270

Val Asn Gly Thr Phe Gln Gln Tyr Thr Gln Lys Leu Phe Ile Pro Asn
 275 280 285

Ile Thr Thr Lys Asn Ser Gly Ser Tyr Ala Cys His Thr Thr Asn Ser
 290 295 300

Ala Thr Gly Arg Asn Arg Thr Thr Val Arg Met Ile Thr Val Ser Asp
 305 310 315 320

Ala Val Val Gln Gly Ser Ser Pro Gly Leu Ser Ala Arg Ala Thr Val
 325 330 335

Ser Ile Met Ile Gly Val Leu Ala Arg Val Ala Leu Ile
 340 345

<210> 65

<211> 702

<212> PRT

<213> homo sapiens

<400> 65

Met Glu Ser Pro Ser Ala Pro Pro His Arg Trp Cys Ile Pro Trp Gln
 1 5 10 15

Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro Thr
 20 25 30

Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly
 35 40 45

Lys Glu Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
 50 55 60

Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile
 65 70 75 80

Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser
 85 90 95

Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile

100												105												110											
Ile	Gln	Asn	Asp	Thr	Gly	Phe	Tyr	Thr	Leu	His	Val	Ile	Lys	Ser	Asp	Ile	Lys	Ser	Asp																
115												120												125											
Leu	Val	Asn	Glu	Glu	Ala	Thr	Gly	Gln	Phe	Arg	Val	Tyr	Pro	Glu	Leu	Tyr	Pro	Glu	Leu																
130												135												140											
Pro	Lys	Pro	Ser	Ile	Ser	Ser	Asn	Asn	Ser	Lys	Pro	Val	Glu	Asp	Lys	Val	Glu	Asp	Lys																
145												150												155											
Asp	Ala	Val	Ala	Phe	Thr	Cys	Glu	Pro	Glu	Thr	Gln	Asp	Ala	Thr	Tyr	Asp	Ala	Thr	Tyr																
												165												170											
Leu	Trp	Trp	Val	Asn	Asn	Gln	Ser	Leu	Pro	Val	Ser	Pro	Arg	Leu	Gln	Pro	Arg	Leu	Gln																
180												185												190											
Leu	Ser	Asn	Gly	Asn	Arg	Thr	Leu	Thr	Leu	Phe	Asn	Val	Thr	Arg	Asn	Val	Thr	Arg	Asn																
195												200												205											
Asp	Thr	Ala	Ser	Tyr	Lys	Cys	Glu	Thr	Gln	Asn	Pro	Val	Ser	Ala	Arg	Val	Ser	Ala	Arg																
210												215												220											
Arg	Ser	Asp	Ser	Val	Ile	Leu	Asn	Val	Leu	Tyr	Gly	Pro	Asp	Ala	Pro	Pro	Asp	Ala	Pro																
225												230												235											
Thr	Ile	Ser	Pro	Leu	Asn	Thr	Ser	Tyr	Arg	Ser	Gly	Glu	Asn	Leu	Asn	Glu	Asn	Leu	Asn																
												245												250											
Leu	Ser	Cys	His	Ala	Ala	Ser	Asn	Pro	Pro	Ala	Gln	Tyr	Ser	Trp	Phe	Tyr	Ser	Trp	Phe																
260												265												270											
Val	Asn	Gly	Thr	Phe	Gln	Gln	Ser	Thr	Gln	Glu	Leu	Phe	Ile	Pro	Asn	Phe	Ile	Pro	Asn																
275												280												285											
Ile	Thr	Val	Asn	Asn	Ser	Gly	Ser	Tyr	Thr	Cys	Gln	Ala	His	Asn	Ser	Ala	His	Asn	Ser																
290												295												300											
Asp	Thr	Gly	Leu	Asn	Arg	Thr	Thr	Val	Thr	Thr	Ile	Thr	Val	Tyr	Ala	Thr	Val	Tyr	Ala																
305												310												315											
Glu	Pro	Pro	Lys	Pro	Phe	Ile	Thr	Ser	Asn	Asn	Ser	Asn	Pro	Val	Glu	Asn	Pro	Val	Glu																
												325												330											
Asp	Glu	Asp	Ala	Val	Ala	Leu	Thr	Cys	Glu	Pro	Glu	Ile	Gln	Asn	Thr	Gln	Asn	Thr																	
340												345												350											

Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg
 355 360 365

Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser Val Thr
 370 375 380

Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile Gln Asn Glu Leu Ser
 385 390 395 400

Val Asp His Ser Asp Pro Val Ile Leu Asn Val Leu Tyr Gly Pro Asp
 405 410 415

Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn
 420 425 430

Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser
 435 440 445

Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr Gln Glu Leu Phe Ile
 450 455 460

Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr Thr Cys Gln Ala Asn
 465 470 475 480

Asn Ser Ala Ser Gly His Ser Arg Thr Thr Val Lys Thr Ile Thr Val
 485 490 495

Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro
 500 505 510

Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Ala Gln
 515 520 525

Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser
 530 535 540

Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe Asn
 545 550 555 560

Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys Gly Ile Gln Asn Ser
 565 570 575

Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly
 580 585 590

Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu Ser Gly
595 600 605

Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser Pro Gln
610 615 620

Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln His Thr Gln Val Leu
625 630 635 640

Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr Ala Cys Phe
645 650 655

Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile Val Lys Ser Ile
660 665 670

Thr Val Ser Ala Ser Gly Thr Ser Pro Gly Leu Ser Ala Gly Ala Thr
675 680 685

Val Gly Ile Met Ile Gly Val Leu Val Gly Val Ala Leu Ile
690 695 700

<210> 66

<211> 1203

<212> PRT

<213> homo sapiens

<400> 66

Met Asp Leu Arg Asp Phe Tyr Leu Leu Ala Ala Leu Ile Ala Cys Leu
1 5 10 15

Arg Leu Asp Ser Ala Ile Ala Gln Glu Leu Ile Tyr Thr Ile Arg Glu
20 25 30

Glu Leu Pro Glu Asn Val Pro Ile Gly Asn Ile Pro Lys Asp Leu Asn
35 40 45

Ile Ser His Ile Asn Ala Ala Thr Gly Thr Ser Ala Ser Leu Val Tyr
50 55 60

Arg Leu Val Ser Lys Ala Gly Asp Ala Pro Leu Val Lys Val Ser Ser
65 70 75 80

Ser Thr Gly Glu Ile Phe Thr Thr Ser Asn Arg Ile Asp Arg Glu Lys
85 90 95

Leu Cys Ala Gly Ala Ser Tyr Ala Glu Glu Asn Glu Cys Phe Phe Glu
100 105 110

Leu Glu Val Val Ile Leu Pro Asn Asp Phe Phe Arg Leu Ile Lys Ile
115 120 125

Lys Ile Ile Val Lys Asp Thr Asn Asp Asn Ala Pro Met Phe Pro Ser
130 135 140

Pro Val Ile Asn Ile Ser Ile Pro Glu Asn Thr Leu Ile Asn Ser Arg
145 150 155 160

Phe Pro Ile Pro Ser Ala Thr Asp Pro Asp Thr Gly Phe Asn Gly Val
165 170 175

Gln His Tyr Glu Leu Leu Asn Gly Gln Ser Val Phe Gly Leu Asp Ile
180 185 190

Val Glu Thr Pro Glu Gly Glu Lys Trp Pro Gln Leu Ile Val Gln Gln
195 200 205

Asn Leu Asp Arg Glu Gln Lys Asp Thr Tyr Val Met Lys Ile Lys Val
210 215 220

Glu Asp Gly Gly Thr Pro Gln Lys Ser Ser Thr Ala Ile Leu Gln Val
225 230 235 240

Thr Val Ser Asp Val Asn Asp Asn Arg Pro Val Phe Lys Glu Gly Gln
245 250 255

Val Glu Val His Ile Pro Glu Asn Ala Pro Val Gly Thr Ser Val Ile
260 265 270

Gln Leu His Ala Thr Asp Ala Asp Ile Gly Ser Asn Ala Glu Ile Arg
275 280 285

Tyr Ile Phe Gly Ala Gln Val Ala Pro Ala Thr Lys Arg Leu Phe Ala
290 295 300

Leu Asn Asn Thr Thr Gly Leu Ile Thr Val Gln Arg Ser Leu Asp Arg
305 310 315 320

Glu Glu Thr Ala Ile His Lys Val Thr Val Leu Ala Ser Asp Gly Ser

325

330

335

Ser Thr Pro Ala Arg Ala Thr Val Thr Ile Asn Val Thr Asp Val Asn
340 345 350

Asp Asn Pro Pro Asn Ile Asp Leu Arg Tyr Ile Ile Ser Pro Ile Asn
355 360 365

Gly Thr Val Tyr Leu Ser Glu Lys Asp Pro Val Asn Thr Lys Ile Ala
370 375 380

Leu Ile Thr Val Ser Asp Lys Asp Thr Asp Val Asn Gly Lys Val Ile
385 390 395 400

Cys Phe Ile Glu Arg Glu Val Pro Phe His Leu Lys Ala Val Tyr Asp
405 410 415

Asn Gln Tyr Leu Leu Glu Thr Ser Ser Leu Leu Asp Tyr Glu Gly Thr
420 425 430

Lys Glu Phe Ser Phe Lys Ile Val Ala Ser Asp Ser Gly Lys Pro Ser
435 440 445

Leu Asn Gln Thr Ala Leu Val Arg Val Lys Leu Glu Asp Glu Asn Asp
450 455 460

Asn Pro Pro Ile Phe Asn Gln Pro Val Ile Glu Leu Ser Val Ser Glu
465 470 475 480

Asn Asn Arg Arg Gly Leu Tyr Leu Thr Thr Ile Ser Ala Thr Asp Glu
485 490 495

Asp Ser Gly Lys Asn Ala Asp Ile Val Tyr Gln Leu Gly Pro Asn Ala
500 505 510

Ser Phe Phe Asp Leu Asp Arg Lys Thr Gly Val Leu Thr Ala Ser Arg
515 520 525

Val Phe Asp Arg Glu Glu Gln Glu Arg Phe Ile Phe Thr Val Thr Ala
530 535 540

Arg Asp Asn Gly Thr Pro Pro Leu Gln Ser Gln Ala Ala Val Ile Val
545 550 555 560

Thr Val Leu Asp Glu Asn Asp Asn Ser Pro Lys Phe Thr His Asn His
565 570 575

Phe Gln Phe Phe Val Ser Glu Asn Leu Pro Lys Tyr Ser Thr Val Gly
580 585 590

Val Ile Thr Val Thr Asp Ala Asp Ala Gly Glu Asn Lys Ala Val Thr
595 600 605

Leu Ser Ile Leu Asn Asp Asn Asp Asn Phe Val Leu Asp Pro Tyr Ser
610 615 620

Gly Val Ile Lys Ser Asn Val Ser Phe Asp Arg Glu Gln Gln Ser Ser
625 630 635 640

Tyr Thr Phe Asp Val Lys Ala Thr Asp Gly Gly Gln Pro Pro Arg Ser
645 650 655

Ser Thr Ala Lys Val Thr Ile Asn Val Met Asp Val Asn Asp Asn Ser
660 665 670

Pro Val Val Ile Ser Pro Pro Ser Asn Thr Ser Phe Lys Leu Val Pro
675 680 685

Leu Ser Ala Ile Pro Gly Ser Val Val Ala Glu Val Phe Ala Val Asp
690 695 700

Val Asp Thr Gly Met Asn Ala Glu Leu Lys Tyr Thr Ile Val Ser Gly
705 710 715 720

Asn Asn Lys Gly Leu Phe Arg Ile Asp Pro Val Thr Gly Asn Ile Thr
725 730 735

Leu Glu Glu Lys Pro Ala Pro Thr Asp Val Gly Leu His Arg Leu Val
740 745 750

Val Asn Ile Ser Asp Leu Gly Tyr Pro Lys Ser Leu His Thr Leu Val
755 760 765

Leu Val Phe Leu Tyr Val Asn Asp Thr Ala Gly Asn Ala Ser Tyr Ile
770 775 780

Tyr Asp Leu Ile Arg Arg Thr Met Glu Thr Pro Leu Asp Arg Asn Ile
785 790 795 800

Gly Asp Ser Ser Gln Pro Tyr Gln Asn Glu Asp Tyr Leu Thr Ile Met
805 810 815

Ile Ala Ile Ile Ala Gly Ala Met Val Val Ile Val Val Ile Phe Val
 820 825 830

Thr Val Leu Val Arg Cys Arg His Ala Ser Arg Phe Lys Ala Ala Gln
 835 840 845

Arg Ser Lys Gln Gly Ala Glu Trp Met Ser Pro Asn Gln Glu Asn Lys
 850 855 860

Gln Asn Lys Lys Lys Lys Arg Lys Lys Arg Lys Ser Pro Lys Ser Ser
 865 870 875 880

Leu Leu Asn Phe Val Thr Ile Glu Glu Ser Lys Pro Asp Asp Ala Val
 885 890 895

His Glu Pro Ile Asn Gly Thr Ile Ser Leu Pro Ala Glu Leu Glu Glu
 900 905 910

Gln Ser Ile Gly Arg Phe Asp Trp Gly Pro Ala Pro Pro Thr Thr Phe
 915 920 925

Lys Pro Asn Ser Pro Asp Leu Ala Lys His Tyr Lys Ser Ala Ser Pro
 930 935 940

Gln Pro Ala Phe His Leu Lys Pro Asp Thr Pro Val Ser Val Lys Lys
 945 950 955 960

His His Val Ile Gln Glu Leu Pro Leu Asp Asn Thr Phe Val Gly Gly
 965 970 975

Cys Asp Thr Leu Ser Lys Arg Ser Ser Thr Ser Ser Asp His Phe Ser
 980 985 990

Ala Ser Glu Cys Ser Ser Gln Gly Gly Phe Lys Thr Lys Gly Pro Leu
 995 1000 1005

His Thr Arg Gln Ser Gln Arg Arg Val Thr Phe His Leu Pro Asp
 1010 1015 1020

Gly Ser Gln Glu Ser Cys Ser Asp Ser Gly Leu Gly Asp His Glu
 1025 1030 1035

Pro Val Gly Ser Gly Thr Leu Ile Ser His Pro Leu Pro Leu Val
 1040 1045 1050

Gln Pro Gln Asp Glu Phe Tyr Asp Gln Ala Ser Pro Asp Lys Arg
1055 1060 1065

Thr Glu Ala Asp Gly Asn Ser Asp Pro Asn Ser Asp Gly Pro Leu
1070 1075 1080

Gly Pro Arg Gly Leu Ala Glu Ala Thr Glu Met Cys Thr Gln Glu
1085 1090 1095

Cys Leu Val Leu Gly His Ser Asp Asn Cys Trp Met Pro Pro Gly
1100 1105 1110

Leu Gly Pro Tyr Gln His Pro Lys Ser Pro Leu Ser Thr Phe Ala
1115 1120 1125

Pro Gln Lys Glu Trp Val Lys Lys Asp Lys Leu Val Asn Gly His
1130 1135 1140

Thr Leu Thr Arg Ala Trp Lys Glu Asp Ser Asn Arg Asn Gln Phe
1145 1150 1155

Asn Asp Arg Lys Gln Tyr Gly Ser Asn Glu Gly His Phe Asn Asn
1160 1165 1170

Gly Ser His Met Thr Asp Ile Pro Leu Ala Asn Leu Lys Ser Tyr
1175 1180 1185

Lys Gln Ala Gly Gly Ala Thr Glu Ser Pro Lys Glu His Gln Leu
1190 1195 1200

<210> 67

<211> 465

<212> PRT

<213> homo sapiens

<400> 67

Met Gly Gly Ala Val Val Asp Glu Gly Pro Thr Gly Val Lys Ala Pro
1 5 10 15

Asp Gly Gly Trp Gly Trp Ala Val Leu Phe Gly Cys Phe Val Ile Thr
20 25 30

Gly Phe Ser Tyr Ala Phe Pro Lys Ala Val Ser Val Phe Phe Lys Glu

35

40

45

Leu Ile Gln Glu Phe Gly Ile Gly Tyr Ser Asp Thr Ala Trp Ile Ser
50 55 60

Ser Ile Leu Leu Ala Met Leu Tyr Gly Thr Gly Pro Leu Cys Ser Val
65 70 75 80

Cys Val Asn Arg Phe Gly Cys Arg Pro Val Met Leu Val Gly Gly Leu
85 90 95

Phe Ala Ser Leu Gly Met Val Ala Ala Ser Phe Cys Arg Ser Ile Ile
100 105 110

Gln Val Tyr Leu Thr Thr Gly Val Ile Thr Gly Leu Gly Leu Ala Leu
115 120 125

Asn Phe Gln Pro Ser Leu Ile Met Leu Asn Arg Tyr Phe Ser Lys Arg
130 135 140

Arg Pro Met Ala Asn Gly Leu Ala Ala Ala Gly Ser Pro Val Phe Leu
145 150 155 160

Cys Ala Leu Ser Pro Leu Gly Gln Leu Leu Gln Asp Arg Tyr Gly Trp
165 170 175

Arg Gly Gly Phe Leu Ile Leu Gly Gly Leu Leu Leu Asn Cys Cys Val
180 185 190

Cys Ala Ala Leu Met Arg Pro Leu Val Val Thr Ala Gln Pro Gly Ser
195 200 205

Gly Pro Pro Arg Pro Ser Arg Arg Leu Leu Asp Leu Ser Val Phe Arg
210 215 220

Asp Arg Gly Phe Val Leu Tyr Ala Val Ala Ala Ser Val Met Val Leu
225 230 235 240

Gly Leu Phe Val Pro Pro Val Phe Val Val Ser Tyr Ala Lys Asp Leu
245 250 255

Gly Val Pro Asp Thr Lys Ala Ala Phe Leu Leu Thr Ile Leu Gly Phe
260 265 270

Ile Asp Ile Phe Ala Arg Pro Ala Ala Gly Phe Val Ala Gly Leu Gly
275 280 285

Lys Val Arg Pro Tyr Ser Val Tyr Leu Phe Ser Phe Ser Met Phe Phe
290 295 300

Asn Gly Leu Ala Asp Leu Ala Gly Ser Thr Ala Gly Asp Tyr Gly Gly
305 310 315 320

Leu Val Val Phe Cys Ile Phe Phe Gly Ile Ser Tyr Gly Met Val Gly
325 330 335

Ala Leu Gln Phe Glu Val Leu Met Ala Ile Val Gly Thr His Lys Phe
340 345 350

Ser Ser Ala Ile Gly Leu Val Leu Leu Met Glu Ala Val Ala Val Leu
355 360 365

Val Gly Pro Pro Ser Gly Gly Lys Leu Leu Asp Ala Thr His Val Tyr
370 375 380

Met Tyr Val Phe Ile Leu Ala Gly Ala Glu Val Leu Thr Ser Ser Leu
385 390 395 400

Ile Leu Leu Leu Gly Asn Phe Phe Cys Ile Arg Lys Lys Pro Lys Glu
405 410 415

Pro Gln Pro Glu Val Ala Ala Ala Glu Glu Glu Lys Leu His Lys Pro
420 425 430

Pro Ala Asp Ser Gly Val Asp Leu Arg Glu Val Glu His Phe Leu Lys
435 440 445

Ala Glu Pro Glu Lys Asn Gly Glu Val Val His Thr Pro Glu Thr Ser
450 455 460

Val
465

<210> 68

<211> 314

<212> PRT

<213> homo sapiens

<400> 68

Met Arg Ile Ala Val Ile Cys Phe Cys Leu Leu Gly Ile Thr Cys Ala
 1 5 10 15
 Ile Pro Val Lys Gln Ala Asp Ser Gly Ser Ser Glu Glu Lys Gln Leu
 20 25 30
 Tyr Asn Lys Tyr Pro Asp Ala Val Ala Thr Trp Leu Asn Pro Asp Pro
 35 40 45
 Ser Gln Lys Gln Asn Leu Leu Ala Pro Gln Asn Ala Val Ser Ser Glu
 50 55 60
 Glu Thr Asn Asp Phe Lys Gln Glu Thr Leu Pro Ser Lys Ser Asn Glu
 65 70 75 80
 Ser His Asp His Met Asp Asp Met Asp Asp Glu Asp Asp Asp Asp His
 85 90 95
 Val Asp Ser Gln Asp Ser Ile Asp Ser Asn Asp Ser Asp Asp Val Asp
 100 105 110
 Asp Thr Asp Asp Ser His Gln Ser Asp Glu Ser His His Ser Asp Glu
 115 120 125
 Ser Asp Glu Leu Val Thr Asp Phe Pro Thr Asp Leu Pro Ala Thr Glu
 130 135 140
 Val Phe Thr Pro Val Val Pro Thr Val Asp Thr Tyr Asp Gly Arg Gly
 145 150 155 160
 Asp Ser Val Val Tyr Gly Leu Arg Ser Lys Ser Lys Lys Phe Arg Arg
 165 170 175
 Pro Asp Ile Gln Tyr Pro Asp Ala Thr Asp Glu Asp Ile Thr Ser His
 180 185 190
 Met Glu Ser Glu Glu Leu Asn Gly Ala Tyr Lys Ala Ile Pro Val Ala
 195 200 205
 Gln Asp Leu Asn Ala Pro Ser Asp Trp Asp Ser Arg Gly Lys Asp Ser
 210 215 220
 Tyr Glu Thr Ser Gln Leu Asp Asp Gln Ser Ala Glu Thr His Ser His
 225 230 235 240

Lys Gln Ser Arg Leu Tyr Lys Arg Lys Ala Asn Asp Glu Ser Asn Glu
245 250 255

His Ser Asp Val Ile Asp Ser Gln Glu Leu Ser Lys Val Ser Arg Glu
260 265 270

Phe His Ser His Glu Phe His Ser His Glu Asp Met Leu Val Val Asp
275 280 285

Pro Lys Ser Lys Glu Glu Asp Lys His Leu Lys Phe Arg Ile Ser His
290 295 300

Glu Leu Asp Ser Ala Ser Ser Glu Val Asn
305 310

<210> 69

<211> 702

<212> PRT

<213> homo sapiens

<400> 69

Met Glu Ser Pro Ser Ala Pro Pro His Arg Trp Cys Ile Pro Trp Gln
1 5 10 15

Arg Leu Leu Leu Thr Ala Ser Leu Leu Thr Phe Trp Asn Pro Pro Thr
20 25 30

Thr Ala Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly
35 40 45

Lys Glu Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly
50 55 60

Tyr Ser Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile
65 70 75 80

Gly Tyr Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser
85 90 95

Gly Arg Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile
100 105 110

Ile Gln Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp

115		120		125
Leu Val Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr Pro Glu Leu				
130		135		140
Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro Val Glu Asp Lys				
145		150		155
Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Thr Gln Asp Ala Thr Tyr				
	165		170	175
Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg Leu Gln				
	180		185	190
Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn				
	195		200	205
Asp Thr Ala Ser Tyr Lys Cys Glu Thr Gln Asn Pro Val Ser Ala Arg				
	210		215	220
Arg Ser Asp Ser Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro				
225		230		235
Thr Ile Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu Asn Leu Asn				
	245		250	255
Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser Trp Phe				
	260		265	270
Val Asn Gly Thr Phe Gln Gln Ser Thr Gln Glu Leu Phe Ile Pro Asn				
	275		280	285
Ile Thr Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln Ala His Asn Ser				
	290		295	300
Asp Thr Gly Leu Asn Arg Thr Thr Val Thr Thr Ile Thr Val Tyr Ala				
305		310		315
Glu Pro Pro Lys Pro Phe Ile Thr Ser Asn Asn Ser Asn Pro Val Glu				
	325		330	335
Asp Glu Asp Ala Val Ala Leu Thr Cys Glu Pro Glu Ile Gln Asn Thr				
	340		345	350
Thr Tyr Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg				
	355		360	365

Leu Gln Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser Val Thr
 370 375 380

Arg Asn Asp Val Gly Pro Tyr Glu Cys Gly Ile Gln Asn Glu Leu Ser
 385 390 395 400

Val Asp His Ser Asp Pro Val Ile Leu Asn Val Leu Tyr Gly Pro Asp
 405 410 415

Asp Pro Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn
 420 425 430

Leu Ser Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser
 435 440 445

Trp Leu Ile Asp Gly Asn Ile Gln Gln His Thr Gln Glu Leu Phe Ile
 450 455 460

Ser Asn Ile Thr Glu Lys Asn Ser Gly Leu Tyr Thr Cys Gln Ala Asn
 465 470 475 480

Asn Ser Ala Ser Gly His Ser Arg Thr Thr Val Lys Thr Ile Thr Val
 485 490 495

Ser Ala Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro
 500 505 510

Val Glu Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Ala Gln
 515 520 525

Asn Thr Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser
 530 535 540

Pro Arg Leu Gln Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe Asn
 545 550 555 560

Val Thr Arg Asn Asp Ala Arg Ala Tyr Val Cys Gly Ile Gln Asn Ser
 565 570 575

Val Ser Ala Asn Arg Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly
 580 585 590

Pro Asp Thr Pro Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu Ser Gly
 595 600 605

Ala Asn Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser Pro Gln
610 615 620

Tyr Ser Trp Arg Ile Asn Gly Ile Pro Gln Gln His Thr Gln Val Leu
625 630 635 640

Phe Ile Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr Ala Cys Phe
645 650 655

Val Ser Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile Val Lys Ser Ile
660 665 670

Thr Val Ser Ala Ser Gly Thr Ser Pro Gly Leu Ser Ala Gly Ala Thr
675 680 685

Val Gly Ile Met Ile Gly Val Leu Val Gly Val Ala Leu Ile
690 695 700

<210> 70

<211> 581

<212> PRT

<213> homo sapiens

<400> 70

Met Glu Thr Arg Gly Ser Arg Leu Thr Gly Gly Gln Gly Arg Val Tyr
1 5 10 15

Asn Phe Leu Glu Arg Pro Thr Gly Trp Lys Cys Phe Val Tyr His Phe
20 25 30

Ala Val Phe Leu Ile Val Leu Val Cys Leu Ile Phe Ser Val Leu Ser
35 40 45

Thr Ile Glu Gln Tyr Ala Ala Leu Ala Thr Gly Thr Leu Phe Trp Met
50 55 60

Glu Ile Val Leu Val Val Phe Phe Gly Thr Glu Tyr Val Val Arg Leu
65 70 75 80

Trp Ser Ala Gly Cys Arg Ser Lys Tyr Val Gly Leu Trp Gly Arg Leu
85 90 95

Arg Phe Ala Arg Lys Pro Ile Ser Ile Ile Asp Leu Ile Val Val Val
 100 105 110

Ala Ser Met Val Val Leu Cys Val Gly Ser Lys Gly Gln Val Phe Ala
 115 120 125

Thr Ser Ala Ile Arg Gly Ile Arg Phe Leu Gln Ile Leu Arg Met Leu
 130 135 140

His Val Asp Arg Gln Gly Gly Thr Trp Arg Leu Leu Gly Ser Val Val
 145 150 155 160

Phe Ile His Arg Gln Glu Leu Ile Thr Thr Leu Tyr Ile Gly Phe Leu
 165 170 175

Gly Leu Ile Phe Ser Ser Tyr Phe Val Tyr Leu Ala Glu Lys Asp Ala
 180 185 190

Val Asn Glu Ser Gly Arg Val Glu Phe Gly Ser Tyr Ala Asp Ala Leu
 195 200 205

Trp Trp Gly Val Val Thr Val Thr Thr Ile Gly Tyr Gly Asp Lys Val
 210 215 220

Pro Gln Thr Trp Val Gly Lys Thr Ile Ala Ser Cys Phe Ser Val Phe
 225 230 235 240

Ala Ile Ser Phe Phe Ala Leu Pro Ala Gly Ile Leu Gly Ser Gly Phe
 245 250 255

Ala Leu Lys Val Gln Gln Lys Gln Arg Gln Lys His Phe Asn Arg Gln
 260 265 270

Ile Pro Ala Ala Ala Ser Leu Ile Gln Thr Ala Trp Arg Cys Tyr Ala
 275 280 285

Ala Glu Asn Pro Asp Ser Ser Thr Trp Lys Ile Tyr Ile Arg Lys Ala
 290 295 300

Pro Arg Ser His Thr Leu Leu Ser Pro Ser Pro Lys Pro Lys Lys Ser
 305 310 315 320

Val Val Val Lys Lys Lys Lys Phe Lys Leu Asp Lys Asp Asn Gly Val
 325 330 335

Thr Pro Gly Glu Lys Met Leu Thr Val Pro His Ile Thr Cys Asp Pro

340

345

350

Pro Glu Glu Arg Arg Leu Asp His Phe Ser Val Asp Gly Tyr Asp Ser
 355 360 365

Ser Val Arg Lys Ser Pro Thr Leu Leu Glu Val Ser Met Pro His Phe
 370 375 380

Met Arg Thr Asn Ser Phe Ala Glu Asp Leu Asp Leu Glu Gly Glu Thr
 385 390 395 400

Leu Leu Thr Pro Ile Thr His Ile Ser Gln Leu Arg Glu His His Arg
 405 410 415

Ala Thr Ile Lys Val Ile Arg Arg Met Gln Tyr Phe Val Ala Lys Lys
 420 425 430

Lys Phe Gln Gln Ala Arg Lys Pro Tyr Asp Val Arg Asp Val Ile Glu
 435 440 445

Gln Tyr Ser Gln Gly His Leu Asn Leu Met Val Arg Ile Lys Glu Leu
 450 455 460

Gln Arg Arg Leu Asp Gln Ser Ile Gly Lys Pro Ser Leu Phe Ile Ser
 465 470 475 480

Val Ser Glu Lys Ser Lys Asp Arg Gly Ser Asn Thr Ile Gly Ala Arg
 485 490 495

Leu Asn Arg Val Glu Asp Lys Val Thr Gln Leu Asp Gln Arg Leu Ala
 500 505 510

Leu Ile Thr Asp Met Leu His Gln Leu Leu Ser Leu His Gly Gly Ser
 515 520 525

Thr Pro Gly Ser Gly Gly Pro Pro Arg Glu Gly Gly Ala His Ile Thr
 530 535 540

Gln Pro Cys Gly Ser Gly Gly Ser Val Asp Pro Glu Leu Phe Leu Pro
 545 550 555 560

Ser Asn Thr Leu Pro Thr Tyr Glu Gln Leu Thr Val Pro Arg Arg Gly
 565 570 575

Pro Asp Glu Gly Ser
 580

<210> 71

<211> 699

<212> PRT

<213> homo sapiens

<400> 71

Met Asp Lys Phe Trp Trp His Ala Ala Trp Gly Leu Cys Leu Val Pro
1 5 10 15

Leu Ser Leu Ala Gln Ile Asp Leu Asn Ile Thr Cys Arg Phe Ala Gly
20 25 30

Val Phe His Val Glu Lys Asn Gly Arg Tyr Ser Ile Ser Arg Thr Glu
35 40 45

Ala Ala Asp Leu Cys Lys Ala Phe Asn Ser Thr Leu Pro Thr Met Ala
50 55 60

Gln Met Glu Lys Ala Leu Ser Ile Gly Phe Glu Thr Cys Arg Tyr Gly
65 70 75 80

Phe Ile Glu Gly His Val Val Ile Pro Arg Ile His Pro Asn Ser Ile
85 90 95

Cys Ala Ala Asn Asn Thr Gly Val Tyr Ile Leu Thr Ser Asn Thr Ser
100 105 110

Gln Tyr Asp Thr Tyr Cys Phe Asn Ala Ser Ala Pro Pro Glu Glu Asp
115 120 125

Cys Thr Ser Val Thr Asp Leu Pro Asn Ala Phe Asp Gly Pro Ile Thr
130 135 140

Ile Thr Ile Val Asn Arg Asp Gly Thr Arg Tyr Val Gln Lys Gly Glu
145 150 155 160

Tyr Arg Thr Asn Pro Glu Asp Ile Tyr Pro Ser Asn Pro Thr Asp Asp
165 170 175

Asp Val Ser Ser Gly Ser Ser Ser Glu Arg Ser Ser Thr Ser Gly Gly
180 185 190

Tyr Ile Phe Tyr Thr Phe Ser Thr Val His Pro Ile Pro Asp Glu Asp
 195 200 205

Ser Pro Trp Ile Thr Asp Ser Thr Asp Arg Ile Pro Ala Thr Ser Thr
 210 215 220

Ser Ser Asn Thr Ile Ser Ala Gly Trp Glu Pro Asn Glu Glu Asn Glu
 225 230 235 240

Asp Glu Arg Asp Arg His Leu Ser Phe Ser Gly Ser Gly Ile Asp Asp
 245 250 255

Asp Glu Asp Phe Ile Ser Ser Thr Ile Ser Thr Thr Pro Arg Ala Phe
 260 265 270

Asp His Thr Lys Gln Asn Gln Asp Trp Thr Gln Trp Asn Pro Ser His
 275 280 285

Ser Asn Pro Glu Val Leu Leu Gln Thr Thr Thr Arg Met Thr Asp Val
 290 295 300

Asp Arg Asn Gly Thr Thr Ala Tyr Glu Gly Asn Trp Asn Pro Glu Ala
 305 310 315 320

His Pro Pro Leu Ile His His Glu His His Glu Glu Glu Glu Thr Pro
 325 330 335

His Ser Thr Ser Thr Ile Gln Ala Thr Pro Ser Ser Thr Thr Glu Glu
 340 345 350

Thr Ala Thr Gln Lys Glu Gln Trp Phe Gly Asn Arg Trp His Val Gly
 355 360 365

Tyr Arg Gln Thr Pro Lys Glu Asp Ser His Ser Thr Thr Gly Thr Ala
 370 375 380

Ala Ala Ser Ala His Thr Ser His Pro Met Gln Gly Arg Thr Thr Pro
 385 390 395 400

Ser Pro Glu Asp Ser Ser Trp Thr Asp Phe Phe Asn Pro Ile Ser His
 405 410 415

Pro Met Gly Arg Gly His Gln Ala Gly Arg Arg Met Asp Met Asp Ser
 420 425 430

Ser His Ser Thr Thr Leu Gln Pro Thr Ala Asn Pro Asn Thr Gly Leu
 435 440 445

Val Glu Asp Leu Asp Arg Thr Gly Pro Leu Ser Met Thr Thr Gln Gln
 450 455 460

Ser Asn Ser Gln Ser Phe Ser Thr Ser His Glu Gly Leu Glu Glu Asp
 465 470 475 480

Lys Asp His Pro Thr Thr Ser Thr Leu Thr Ser Ser Asn Arg Asn Asp
 485 490 495

Val Thr Gly Gly Arg Arg Asp Pro Asn His Ser Glu Gly Ser Thr Thr
 500 505 510

Leu Leu Glu Gly Tyr Thr Ser His Tyr Pro His Thr Lys Glu Ser Arg
 515 520 525

Thr Phe Ile Pro Val Thr Ser Ala Lys Thr Gly Ser Phe Gly Val Thr
 530 535 540

Ala Val Thr Val Gly Asp Ser Asn Ser Asn Val Asn Arg Ser Leu Ser
 545 550 555 560

Gly Asp Gln Asp Thr Phe His Pro Ser Gly Gly Ser His Thr Thr His
 565 570 575

Gly Ser Glu Ser Asp Gly His Ser His Gly Ser Gln Glu Gly Gly Ala
 580 585 590

Asn Thr Thr Ser Gly Pro Ile Arg Thr Pro Gln Ile Pro Glu Trp Leu
 595 600 605

Ile Ile Leu Ala Ser Leu Leu Ala Leu Ala Leu Ile Leu Ala Val Cys
 610 615 620

Ile Ala Val Asn Ser Arg Arg Arg Cys Gly Gln Lys Lys Lys Leu Val
 625 630 635 640

Ile Asn Ser Gly Asn Gly Ala Val Glu Asp Arg Lys Pro Ser Gly Leu
 645 650 655

Asn Gly Glu Ala Ser Lys Ser Gln Glu Met Val His Leu Val Asn Lys
 660 665 670

Glu Ser Ser Glu Thr Pro Asp Gln Phe Met Thr Ala Asp Glu Thr Arg

675

680

685

Asn Leu Gln Asn Val Asp Met Lys Ile Gly Val
690 695

<210> 72

<211> 377

<212> PRT

<213> homo sapiens

<400> 72

Met Glu Pro Pro Gly Arg Arg Glu Cys Pro Phe Pro Ser Trp Arg Phe
1 5 10 15

Pro Gly Leu Leu Leu Ala Ala Met Val Leu Leu Leu Tyr Ser Phe Ser
20 25 30

Asp Ala Cys Glu Glu Pro Pro Thr Phe Glu Ala Met Glu Leu Ile Gly
35 40 45

Lys Pro Lys Pro Tyr Tyr Glu Ile Gly Glu Arg Val Asp Tyr Lys Cys
50 55 60

Lys Lys Gly Tyr Phe Tyr Ile Pro Pro Leu Ala Thr His Thr Ile Cys
65 70 75 80

Asp Arg Asn His Thr Trp Leu Pro Val Ser Asp Asp Ala Cys Tyr Arg
85 90 95

Glu Thr Cys Pro Tyr Ile Arg Asp Pro Leu Asn Gly Gln Ala Val Pro
100 105 110

Ala Asn Gly Thr Tyr Glu Phe Gly Tyr Gln Met His Phe Ile Cys Asn
115 120 125

Glu Gly Tyr Tyr Leu Ile Gly Glu Glu Ile Leu Tyr Cys Glu Leu Lys
130 135 140

Gly Ser Val Ala Ile Trp Ser Gly Lys Pro Pro Ile Cys Glu Lys Val
145 150 155 160

Leu Cys Thr Pro Pro Pro Lys Ile Lys Asn Gly Lys His Thr Phe Ser
165 170 175

Glu Val Glu Val Phe Glu Tyr Leu Asp Ala Val Thr Tyr Ser Cys Asp
180 185 190

Pro Ala Pro Gly Pro Asp Pro Phe Ser Leu Ile Gly Glu Ser Thr Ile
195 200 205

Tyr Cys Gly Asp Asn Ser Val Trp Ser Arg Ala Ala Pro Glu Cys Lys
210 215 220

Val Val Lys Cys Arg Phe Pro Val Val Glu Asn Gly Lys Gln Ile Ser
225 230 235 240

Gly Phe Gly Lys Lys Phe Tyr Tyr Lys Ala Thr Val Met Phe Glu Cys
245 250 255

Asp Lys Gly Phe Tyr Leu Asp Gly Ser Asp Thr Ile Val Cys Asp Ser
260 265 270

Asn Ser Thr Trp Asp Pro Pro Val Pro Lys Cys Leu Lys Val Ser Thr
275 280 285

Ser Ser Thr Thr Lys Ser Pro Ala Ser Ser Ala Ser Gly Pro Arg Pro
290 295 300

Thr Tyr Lys Pro Pro Val Ser Asn Tyr Pro Gly Tyr Pro Lys Pro Glu
305 310 315 320

Glu Gly Ile Leu Asp Ser Leu Asp Val Trp Val Ile Ala Val Ile Val
325 330 335

Ile Ala Ile Val Val Gly Val Ala Val Ile Cys Val Val Pro Tyr Arg
340 345 350

Tyr Leu Gln Arg Arg Lys Lys Lys Gly Thr Tyr Leu Thr Asp Glu Thr
355 360 365

His Arg Glu Val Lys Phe Thr Ser Leu
370 375

<210> 73

<211> 619

<212> PRT

<213> homo sapiens

<400> 73

Met Ala Thr Lys Glu Lys Leu Gln Cys Leu Lys Asp Phe His Lys Asp
1 5 10 15

Met Val Lys Pro Ser Pro Gly Lys Ser Pro Gly Thr Arg Pro Glu Asp
20 25 30

Glu Ala Glu Gly Lys Pro Pro Gln Arg Glu Lys Trp Ser Ser Lys Ile
35 40 45

Asp Phe Val Leu Ser Val Ala Gly Gly Phe Val Gly Leu Gly Asn Val
50 55 60

Trp Arg Phe Pro Tyr Leu Cys Tyr Lys Asn Gly Gly Gly Ala Phe Leu
65 70 75 80

Ile Pro Tyr Phe Ile Phe Leu Phe Gly Ser Gly Leu Pro Val Phe Phe
85 90 95

Leu Glu Ile Ile Ile Gly Gln Tyr Thr Ser Glu Gly Gly Ile Thr Cys
100 105 110

Trp Glu Lys Ile Cys Pro Leu Phe Ser Gly Ile Gly Tyr Ala Ser Val
115 120 125

Val Ile Val Ser Leu Leu Asn Val Tyr Tyr Ile Val Ile Leu Ala Trp
130 135 140

Ala Thr Tyr Tyr Leu Phe Gln Ser Phe Gln Lys Glu Leu Pro Trp Ala
145 150 155 160

His Cys Asn His Ser Trp Asn Thr Pro His Cys Met Glu Asp Thr Met
165 170 175

Arg Lys Asn Lys Ser Val Trp Ile Thr Ile Ser Ser Thr Asn Phe Thr
180 185 190

Ser Pro Val Ile Glu Phe Trp Glu Arg Asn Val Leu Ser Leu Ser Pro
195 200 205

Gly Ile Asp His Pro Gly Ser Leu Lys Trp Asp Leu Ala Leu Cys Leu
210 215 220

Leu Leu Val Trp Leu Val Cys Phe Phe Cys Ile Cys Lys Gly Val Arg
 225 230 235 240

Ser Thr Gly Lys Val Val Tyr Phe Thr Ala Thr Phe Pro Phe Ala Met
 245 250 255

Leu Leu Val Leu Leu Val Arg Gly Leu Thr Leu Pro Gly Ala Gly Arg
 260 265 270

Gly Ile Lys Phe Tyr Leu Tyr Pro Asp Ile Thr Arg Leu Glu Asp Pro
 275 280 285

Gln Val Trp Ile Asp Ala Gly Thr Gln Ile Phe Phe Ser Tyr Ala Ile
 290 295 300

Cys Leu Gly Ala Met Thr Ser Leu Gly Ser Tyr Asn Lys Tyr Lys Tyr
 305 310 315 320

Asn Ser Tyr Arg Asp Cys Met Leu Leu Gly Cys Leu Asn Ser Gly Thr
 325 330 335

Ser Phe Val Ser Gly Phe Ala Ile Phe Ser Ile Leu Gly Phe Met Ala
 340 345 350

Gln Glu Gln Gly Val Asp Ile Ala Asp Val Ala Glu Ser Gly Pro Gly
 355 360 365

Leu Ala Phe Ile Ala Tyr Pro Lys Ala Val Thr Met Met Pro Leu Pro
 370 375 380

Thr Phe Trp Ser Ile Leu Phe Phe Ile Met Leu Leu Leu Leu Gly Leu
 385 390 395 400

Asp Ser Gln Phe Val Glu Val Glu Gly Gln Ile Thr Ser Leu Val Asp
 405 410 415

Leu Tyr Pro Ser Phe Leu Arg Lys Gly Tyr Arg Arg Glu Ile Phe Ile
 420 425 430

Ala Phe Val Cys Ser Ile Ser Tyr Leu Leu Gly Leu Thr Met Val Thr
 435 440 445

Glu Gly Gly Met Tyr Val Phe Gln Leu Phe Asp Tyr Tyr Ala Ala Ser
 450 455 460

Gly Val Cys Leu Leu Trp Val Ala Phe Phe Glu Cys Phe Val Ile Ala
 465 470 475 480

Trp Ile Tyr Gly Gly Asp Asn Leu Tyr Asp Gly Ile Glu Asp Met Ile
 485 490 495

Gly Tyr Arg Pro Gly Pro Trp Met Lys Tyr Ser Trp Val Ile Thr Pro
 500 505 510

Val Leu Cys Val Gly Cys Phe Ile Phe Ser Leu Val Lys Tyr Val Pro
 515 520 525

Leu Thr Tyr Asn Lys Thr Tyr Val Ser Pro Thr Trp Ala Ile Gly Leu
 530 535 540

Gly Trp Ser Leu Ala Leu Ser Ser Met Leu Cys Val Pro Leu Val Ile
 545 550 555 560

Val Ile Arg Leu Cys Gln Thr Glu Gly Pro Phe Leu Val Arg Val Lys
 565 570 575

Tyr Leu Leu Thr Pro Arg Glu Pro Asn Arg Trp Ala Val Glu Arg Glu
 580 585 590

Gly Ala Thr Pro Tyr Asn Ser Arg Thr Val Met Asn Gly Ala Leu Val
 595 600 605

Lys Pro Thr His Ile Ile Val Glu Thr Met Met
 610 615

<210> 74

<211> 99

<212> PRT

<213> homo sapiens

<400> 74

Met Ala Lys Val Glu Gln Val Leu Ser Leu Glu Pro Gln His Glu Leu
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Lys Phe Arg Gly Pro Phe Thr Asp Val Val Thr Thr Asn Leu Lys Leu
 20 25 30

Gly Asn Pro Thr Asp Arg Asn Val Cys Phe Lys Val Lys Thr Thr Ala

35

40

45

Pro Arg Arg Tyr Cys Val Arg Pro Asn Ser Gly Ile Ile Asp Ala Gly
 50 55 60

Ala Ser Ile Asn Val Ser Gly Arg Arg Trp Thr Ala Asp Glu Glu Asp
 65 70 75 80

Ser Ala Glu Gln Gln Pro His Phe Ser Ile Ser Pro Asn Trp Glu Gly
 85 90 95

Arg Arg Pro

<210> 75

<211> 836

<212> PRT

<213> homo sapiens

<400> 75

Met Ile Pro Phe Leu Pro Met Phe Ser Leu Leu Leu Leu Leu Ile Val
 1 5 10 15

Asn Pro Ile Asn Ala Asn Asn His Tyr Asp Lys Ile Leu Ala His Ser
 20 25 30

Arg Ile Arg Gly Arg Asp Gln Gly Pro Asn Val Cys Ala Leu Gln Gln
 35 40 45

Ile Leu Gly Thr Lys Lys Lys Tyr Phe Ser Thr Cys Lys Asn Trp Tyr
 50 55 60

Lys Lys Ser Ile Cys Gly Gln Lys Thr Thr Val Leu Tyr Glu Cys Cys
 65 70 75 80

Pro Gly Tyr Met Arg Met Glu Gly Met Lys Gly Cys Pro Ala Val Leu
 85 90 95

Pro Ile Asp His Val Tyr Gly Thr Leu Gly Ile Val Gly Ala Thr Thr
 100 105 110

Thr Gln Arg Tyr Ser Asp Ala Ser Lys Leu Arg Glu Glu Ile Glu Gly
 115 120 125

Lys Gly Ser Phe Thr Tyr Phe Ala Pro Ser Asn Glu Ala Trp Asp Asn
 130 135 140

Leu Asp Ser Asp Ile Arg Arg Gly Leu Glu Ser Asn Val Asn Val Glu
 145 150 155 160

Leu Leu Asn Ala Leu His Ser His Met Ile Asn Lys Arg Met Leu Thr
 165 170 175

Lys Asp Leu Lys Asn Gly Met Ile Ile Pro Ser Met Tyr Asn Asn Leu
 180 185 190

Gly Leu Phe Ile Asn His Tyr Pro Asn Gly Val Val Thr Val Asn Cys
 195 200 205

Ala Arg Ile Ile His Gly Asn Gln Ile Ala Thr Asn Gly Val Val His
 210 215 220

Val Ile Asp Arg Val Leu Thr Gln Ile Gly Thr Ser Ile Gln Asp Phe
 225 230 235 240

Ile Glu Ala Glu Asp Asp Leu Ser Ser Phe Arg Ala Ala Ala Ile Thr
 245 250 255

Ser Asp Ile Leu Glu Ala Leu Gly Arg Asp Gly His Phe Thr Leu Phe
 260 265 270

Ala Pro Thr Asn Glu Ala Phe Glu Lys Leu Pro Arg Gly Val Leu Glu
 275 280 285

Arg Phe Met Gly Asp Lys Val Ala Ser Glu Ala Leu Met Lys Tyr His
 290 295 300

Ile Leu Asn Thr Leu Gln Cys Ser Glu Ser Ile Met Gly Gly Ala Val
 305 310 315 320

Phe Glu Thr Leu Glu Gly Asn Thr Ile Glu Ile Gly Cys Asp Gly Asp
 325 330 335

Ser Ile Thr Val Asn Gly Ile Lys Met Val Asn Lys Lys Asp Ile Val
 340 345 350

Thr Asn Asn Gly Val Ile His Leu Ile Asp Gln Val Leu Ile Pro Asp
 355 360 365

Ser Ala Lys Gln Val Ile Glu Leu Ala Gly Lys Gln Gln Thr Thr Phe
 370 375 380

Thr Asp Leu Val Ala Gln Leu Gly Leu Ala Ser Ala Leu Arg Pro Asp
 385 390 395 400

Gly Glu Tyr Thr Leu Leu Ala Pro Val Asn Asn Ala Phe Ser Asp Asp
 405 410 415

Thr Leu Ser Met Val Gln Arg Leu Leu Lys Leu Ile Leu Gln Asn His
 420 425 430

Ile Leu Lys Val Lys Val Gly Leu Asn Glu Leu Tyr Asn Gly Gln Ile
 435 440 445

Leu Glu Thr Ile Gly Gly Lys Gln Leu Arg Val Phe Val Tyr Arg Thr
 450 455 460

Ala Val Cys Ile Glu Asn Ser Cys Met Glu Lys Gly Ser Lys Gln Gly
 465 470 475 480

Arg Asn Gly Ala Ile His Ile Phe Arg Glu Ile Ile Lys Pro Ala Glu
 485 490 495

Lys Ser Leu His Glu Lys Leu Lys Gln Asp Lys Arg Phe Ser Thr Phe
 500 505 510

Leu Ser Leu Leu Glu Ala Ala Asp Leu Lys Glu Leu Leu Thr Gln Pro
 515 520 525

Gly Asp Trp Thr Leu Phe Val Pro Thr Asn Asp Ala Phe Lys Gly Met
 530 535 540

Thr Ser Glu Glu Lys Glu Ile Leu Ile Arg Asp Lys Asn Ala Leu Gln
 545 550 555 560

Asn Ile Ile Leu Tyr His Leu Thr Pro Gly Val Phe Ile Gly Lys Gly
 565 570 575

Phe Glu Pro Gly Val Thr Asn Ile Leu Lys Thr Thr Gln Gly Ser Lys
 580 585 590

Ile Phe Leu Lys Glu Val Asn Asp Thr Leu Leu Val Asn Glu Leu Lys
 595 600 605

Ser Lys Glu Ser Asp Ile Met Thr Thr Asn Gly Val Ile His Val Val
610 615 620

Asp Lys Leu Leu Tyr Pro Ala Asp Thr Pro Val Gly Asn Asp Gln Leu
625 630 635 640

Leu Glu Ile Leu Asn Lys Leu Ile Lys Tyr Ile Gln Ile Lys Phe Val
645 650 655

Arg Gly Ser Thr Phe Lys Glu Ile Pro Val Thr Val Tyr Thr Thr Lys
660 665 670

Ile Ile Thr Lys Val Val Glu Pro Lys Ile Lys Val Ile Glu Gly Ser
675 680 685

Leu Gln Pro Ile Ile Lys Thr Glu Gly Pro Thr Leu Thr Lys Val Lys
690 695 700

Ile Glu Gly Glu Pro Glu Phe Arg Leu Ile Lys Glu Gly Glu Thr Ile
705 710 715 720

Thr Glu Val Ile His Gly Glu Pro Ile Ile Lys Lys Tyr Thr Lys Ile
725 730 735

Ile Asp Gly Val Pro Val Glu Ile Thr Glu Lys Glu Thr Arg Glu Glu
740 745 750

Arg Ile Ile Thr Gly Pro Glu Ile Lys Tyr Thr Arg Ile Ser Thr Gly
755 760 765

Gly Gly Glu Thr Glu Glu Thr Leu Lys Lys Leu Leu Gln Glu Glu Val
770 775 780

Thr Lys Val Thr Lys Phe Ile Glu Gly Gly Asp Gly His Leu Phe Glu
785 790 795 800

Asp Glu Glu Ile Lys Arg Leu Leu Gln Gly Asp Thr Pro Val Arg Lys
805 810 815

Leu Gln Ala Asn Lys Lys Val Gln Gly Ser Arg Arg Arg Leu Arg Glu
820 825 830

Gly Arg Ser Gln
835

<210> 76

<211> 430

<212> PRT

<213> homo sapiens

<400> 76

Met Ser Phe Thr Thr Arg Ser Thr Phe Ser Thr Asn Tyr Arg Ser Leu
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Gly Ser Val Gln Ala Pro Ser Tyr Gly Ala Arg Pro Val Ser Ser Ala
20 25 30

Ala Ser Val Tyr Ala Gly Ala Gly Gly Ser Gly Ser Arg Ile Ser Val
35 40 45

Ser Arg Ser Thr Ser Phe Arg Gly Gly Met Gly Ser Gly Gly Leu Ala
50 55 60

Thr Gly Ile Ala Gly Gly Leu Ala Gly Met Gly Gly Ile Gln Asn Glu
65 70 75 80

Lys Glu Thr Met Gln Ser Leu Asn Asp Arg Leu Ala Ser Tyr Leu Asp
85 90 95

Arg Val Arg Ser Leu Glu Thr Glu Asn Arg Arg Leu Glu Ser Lys Ile
100 105 110

Arg Glu His Leu Glu Lys Lys Gly Pro Gln Val Arg Asp Trp Ser His
115 120 125

Tyr Phe Lys Ile Ile Glu Asp Leu Arg Ala Gln Ile Phe Ala Asn Thr
130 135 140

Val Asp Asn Ala Arg Ile Val Leu Gln Ile Asp Asn Ala Arg Leu Ala
145 150 155 160

Ala Asp Asp Phe Arg Val Lys Tyr Glu Thr Glu Leu Ala Met Arg Gln
165 170 175

Ser Val Glu Asn Asp Ile His Gly Leu Arg Lys Val Ile Asp Asp Thr
180 185 190

Asn Ile Thr Arg Leu Gln Leu Glu Thr Glu Ile Glu Ala Leu Lys Glu

195

200

205

Glu Leu Leu Phe Met Lys Lys Asn His Glu Glu Glu Val Lys Gly Leu
 210 215 220

Gln Ala Gln Ile Ala Ser Ser Gly Leu Thr Val Glu Val Asp Ala Pro
 225 230 235 240

Lys Ser Gln Asp Leu Ala Lys Ile Met Ala Asp Ile Arg Ala Gln Tyr
 245 250 255

Asp Glu Leu Ala Arg Lys Asn Arg Glu Glu Leu Asp Lys Tyr Trp Ser
 260 265 270

Gln Gln Ile Glu Glu Ser Thr Thr Val Val Thr Thr Gln Ser Ala Glu
 275 280 285

Val Gly Ala Ala Glu Thr Thr Leu Thr Glu Leu Arg Arg Thr Val Gln
 290 295 300

Ser Leu Glu Ile Asp Leu Asp Ser Met Arg Asn Leu Lys Ala Ser Leu
 305 310 315 320

Glu Asn Ser Leu Arg Glu Val Glu Ala Arg Tyr Ala Leu Gln Met Glu
 325 330 335

Gln Leu Asn Gly Ile Leu Leu His Leu Glu Ser Glu Leu Ala Gln Thr
 340 345 350

Arg Ala Glu Gly Gln Arg Gln Ala Gln Glu Tyr Glu Ala Leu Leu Asn
 355 360 365

Ile Lys Val Lys Leu Glu Ala Glu Ile Ala Thr Tyr Arg Arg Leu Leu
 370 375 380

Glu Asp Gly Glu Asp Phe Asn Leu Gly Asp Ala Leu Asp Ser Ser Asn
 385 390 395 400

Ser Met Gln Thr Ile Gln Lys Thr Thr Thr Arg Arg Ile Val Asp Gly
 405 410 415

Lys Val Val Ser Glu Thr Asn Asp Thr Lys Val Leu Arg His
 420 425 430

<210> 77

<211> 466
 <212> DNA
 <213> homo sapiens

<220>
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 <222> (457)..(457)
 <223> n=unknown

<220>
 <221> misc_feature
 <222> (95)..(95)
 <223> n=unknown

<400> 77
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 acctatgacg cactccacgt ttttgactgg atcaaagcaa gaagtgggtga caaccccggtg 180
 tacatctggg gccactctct gggcactggc gtggcgacaa atctgggtgcg gcgcctctgt 240
 gagcgagaga cgccctccaga tgcccttata ttggaatctc cattcactaa tatccgtgaa 300
 gaagctaaga gccatccatt ttcagtgata tatcgatact tccttggggtt tgactgggttc 360
 ttccttgatt ctattacaag tagtggaatt aaattgcaaa tgatgaaaac gtgaagcaca 420
 tctctgtcc cctgctcatc tgcacgctga agacganccg gtggtg 466

<210> 78
 <211> 255
 <212> DNA
 <213> homo sapiens

<220>
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<222> (104)..(247)

<223> n=unknown

<220>

<221> misc_feature

<222> (222)..(228)

<223> n=unknown

<400> 78

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cttcaccggt ggcaaaagtt gaatccggcg agggctggga attnacctgc cctccacttt      120
cagctgcctt tgggttagtt ttagttttgt ctgctgntct tcgatgaccg tgtcacctgt      180
tggnttcagt cacaccagct ctgaccacat gcngggatnn gggctggaan ntgggccctg      240
ctgaggnctc agtat                                     255
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<210> 79

<211> 380

<212> DNA

<213> homo sapiens

<400> 79

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cctgtcccaa aatatttggc ctggtcactg tagaagatga gcaggcgtgg atggcatctt      60
ataaatatgt aggtgctacc actaatatcc atccatattt gtccacaatg atcaactacg      120
cccagcctgt aaagtttcaa ggtttccatg tggcagaaga acgcaatatt cattataaca      180
tgtcttcttt taatgaatca gtcggtcttg gctacttgaa gacacatgca attgaatttg      240
tcaattataa caaacggcaa atgagtcgca ttacccecaa gggaggccga gtcgattcca      300
gtaattacat gcctcagatt ttctggaacg ctggctgcca gatggtttca ctgaactatc      360
aaaccccaga tttagcgatg                                     380
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<210> 80

<211> 474

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (245)..(461)

<223> n=unknown

<220>

<221> misc_feature

<222> (40)..(260)

<223> n=unknown

<400> 80
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ttatcaatgg ttggactctg ccttactgga atagtaaatt tttgtggatt tgtagctatt 120
tttgtttggc caaggaaatg caatactcaa gctgttaaatt agaagtcagt cagacattcc 180
aagtctctct ggtttcagat atcatcttgt ttacacataa aggaaacaaa ataaacagct 240
ttcanccagg gagtttgtgt ccagaanttt gngagngant ctttngannc ttnggggggtt 300
ngcngcnnc gtttgcattt nggagtntca tacnactgtt gctggctctgc ggnccatctc 360
ggcttccaat ttcaccatct gctgcattct cttcgcttg cgtttgggac actgcatgac 420
aggatttcaa aagctgctca ttctgtttcc ccaggaattc nagatgttca agct 474

<210> 81

<211> 346

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (181)..(182)

<223> n=unknown

<220>

<221> misc_feature

<222> (348)..(405)

<223> n=unknown

<220>

<221> misc_feature

<222> (257)..(257)

<223> n=unknown

<400> 81
gccagatat ttagactctt attaatgact tctctgggtt taatttctgg gtctctctca 60
cctggcacag tgcttggtt ttgccatgct agtcccact tctcatgcac acaaatggtg 120
ctcagtaaatt atttatgtat tgagtaaaat ttaataatca ttgttgaaa ttaaaaagtg 180
nntaaataag ttacctagaa agatgcaaag tccacaaacc tggggcactt gcattttccc 240
tgagcgtaat gtttgcncat caggatgtga ggaccagtct cctctcatg tcttgagggg 300
tttataatcc cgctcactgg acagttgccg atgtcattgg gagaag 346

<210> 82

<211> 352

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (8)..(345)

<223> n=unknown

<400> 82
agtcaaantc agagcantca atctgtgttg tgagccgang cacagctgca gaagcgtgtc 60
tgangtgtcc ngtggaggtg gcagccgagc tctgggacta atcacctgac tggggacggc 120

accgcgtcag gatgcaggca gatccctgca gaagtgtcta aaattcacac tcctcttctg	180
gagggacntc gatggtatta ggatagaagc accaggggac cccacgaacg gtggcgtcga	240
aacagcagcc cgttactttc acacgtggag ggcgtnacac caggaaaacc acaagtncng	300
ctttcacgng gggccactnt acacggncnc gaaatnncac aggtnagaag ca	352

<210> 83

<211> 535

<212> DNA

<213> homo sapiens

<400> 83	
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tgcacatggc gaaaagatca gatggtacag aaaggtataa aaacttggtc ccttccctcc	120
taccctaata ctctctcca aaagtaacca gtttcaagtg tcttgactc acaggaaaac	180
aattttttat tttttatcag caaatttgta ctttaaaaat ttcacattaa tagaatcaga	240
ctatatatac tcttctgtac cttgcttttt ttgctacctg tgttttatga gatctttctg	300
tatcagtata tataaaaata cctcattatt tttagcggct gtgtggtatt ctaatgtttg	360
aatgtgttac aaatgttcaa aactgatag gctctttagg ttgtttccaa tattaaatca	420
cattgtggtg aatatacttg tacatataat gagtttttat tctacagtgt acctagcaat	480
acaattgctg gatcagaggg tattttttat tttcagttca gtagttactg ccaaa	535

<210> 84

<211> 402

<212> DNA

<213> homo sapiens

<400> 84	
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agtggccgta gcaacttggc ggagacaggc tatgagtctg acgttagagt ggttgcttcc	120
ttagcctttc aggatggagg aatgtgggca gtttgacttc agcactgaaa acctctccac	180
ctgggccagg gttgcctcag aggccaaagt tccagaagcc tcttacctgc cgtaaaatgc	240
tcaacctgt gtctgggcc tgggctgct gtgactgacc tacagtggac tttctctctg	300
gaatggaacc ttcttaggcc tcctggtgca acttaatttt tttttttaat gctatcttca	360

aaacgtaga gaaagttctt caaaagtgc gccagaagt gc

402

<210> 85

<211> 479

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (334)..(334)

<223> n=unknown

<400> 85

ttctagtaca tatacacgat tgcctcacc cttcatctat agcaacgcaa cagggaaaat	60
aaaaaataag gggcaaccta ggcacactca gtataaaaac gcagagatcc atccgaatgg	120
gaggcattgg ggtctggaaa ccagaaatgc aggacggcca gtgggcccag cagctctggg	180
ctgcactttt gaagaacttt ctctaacggt ttgaagatag cattaataaa aaaaattaag	240
ttgcaccagg aggcctaaga aggttcatt ccagagagaa agtccactgt aggtcagtca	300
cagcaggccc aggcccagga cacagggttg agcnttttac ggcaggtaag aggcttctgg	360
aaacttggcc tctgaggcaa ccctggccca ggtggagagg ttttcagtgc tgaagtcaaa	420
ctgcccacat tctccatcc tgaaaggcta aggaagcaag cacttctaac gtcagactc	479

<210> 86

<211> 344

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (139)..(139)

<223> n=unknown

<220>

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<222> (365)..(365)

<223> n=unknown

<400> 86

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taagcgggca gaggtggatt gagcactatg gagagattgt catcaagaac ctgcatgatg 120

attcctgcta ctgcaaagtg aattttataa aggcaaaata ctggagcact aatgccccatg 180

agattgaagg cacagtgttt gacaggagtg gaaaagcggg tcatcggctg tttgggaaat 240

ggcatgaaag catctactgt ggcggcggct cctcttctgc ctgtgtatgg agagcaaadc 300

ctatgccgaa aggtacgagc aatactatag cttcacacag ttg 344

<210> 87

<211> 509

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (211)..(212)

<223> n=unknown

<220>

<221> misc_feature

<222> (34)..(258)

<223> n=unknown

<220>

<221> misc_feature

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 ccgaaaggta caaggacgca cttgtaaaga tgattaaaac gtatctttcc tttatgtgac 300
 gcgtctctag tgccttactg aagaagcagt gacactcccg tcgctcggtg aggacgttcc 360
 cggacagtgc ctcatcactg ggactgggat ccctcccagg gtccaccaag ggctcctgct 420
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<210> 89

<211> 474

<212> DNA

<213> homo sapiens

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<220>

<221> misc_feature

<222> (465)..(465)

<223> n=unknown

<400> 89

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 ggagagcagt tcccacgcca ggaaccaacg tgaaagcact ggaatcagca caacagccat 240

ggaatcaggc aggcagggga ggacgggctg tgccttctg agctctatag tacagcaaga 300
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 attttatggg tctggaagct tcgtgttgca catagggaaa aaaatttctc tgaaacgtac 420
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<210> 90

<211> 455

<212> DNA

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<221> misc_feature

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<222> (443)..(443)

<223> n=unknown

<400> 90

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 ggagcgatgt gacgccactc acctttactg aggtgcacga gggccgtgct gacatcatga 180
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 tggcccatgc cttcttcccc aagactcacc gagaagggga tgtccacttc gactatgatg 300

agacctggac tatcggggat gaccagggca cagacctgct gcaggtggca gcccataaat 360
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<210> 91

<211> 455

<212> DNA

<213> homo sapiens

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<222> (5)..(354)

<223> n=unknown

<400> 91

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 gccgcccaca gctagacctc cggcgaagag gcacgcagtc catgctgctg gcacaagtca 180
 cttggccagc tcttcagcca ccgctttgcg catcttgctc ttgaggtagg cgcctttctg 240
 ccattcagac ttgagttcca gccactcata gaatgggacg tccactatca ggaagcctgc 300
 agccactatg tgctcgccggg ccagaacaaa gcgaccagc aagtccttgc ttcggctggt 360
 gaagttgggg aactcccacc gcaagaacgc tagcctctta gaccctggag gtgggtgact 420
 ggctcccagt tggctgggca aagtgaggtg ccaca 455

<210> 92

<211> 257

<212> DNA

<213> homo sapiens

<400> 92

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<222> (464)..(464)

<223> n=unknown

<400> 87

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atcatcctag aggatctttt aaatatataa acacagggtt gtgccacttc agaaggcaag      180
cacaggagaa atacactaat gttatctttc nnctttactt tttcaccata agacaggatg      240
gtccagtttg gaaaaaccaa gatcttttct aagttccaaa taggtgccgt tgctcaccca      300
agagtcacgc tcggatttcc tgaaaaaccg aggctgggtgc tccacatgat tttcttctaa      360
gacccgccgc ctttctctct gcagttgttc aatectctgc ttttgtattt cagcttcttc      420
taagttccct tcctctagaa acctctggtc tggcctaaat cgangtgtca gtaggtggca      480
ataaagactt tgatgatgga ttccatttc      509
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<210> 88

<211> 479

<212> DNA

<213> homo sapiens

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<221> misc_feature

<222> (471)..(471)

<223> n=unknown

<220>

<221> misc_feature

<222> (39)..(42)

<223> n=unknown

<400> 88

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tgctttacga aggtggcagc tgacagacgt gggctctgca tgccgccagc ctagtagaaa      120
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aattactaat taatcacaaa tgtgaagtta tgcgatgatgt aaaaaataca aacattctaa 240
ttaaaggctt tgcaaca 257

<210> 93

<211> 288

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

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<222> (210)..(210)

<223> n=unknown

<220>

<221> misc_feature

<222> (266)..(266)

<223> n=unknown

<400> 93

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cttaaagcag ggggactttg tatagaaggt ttgggggctg tggggaagga gagtccctcg    180
aaggtctgac acgtctgcct acccattcgn ggtgatcaat taaatgtagg tatgaataag    240
ttcgaagctc cgtgagtgaa ccatcnttat aaacgtgatg atcagctg                  288
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<210> 94

<211> 462

<212> DNA

<213> homo sapiens

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<220>

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<220>

<221> misc_feature

<222> (502)..(535)

<223> n=unknown

<400> 94

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agaatagtga atcatgacag aactcattca ttttatcctt tacctccaaa aggcctcatct	180
ccttaacgag aagacatctc aagaccagga gcttgtcact agtctgatat ttcattcagg	240
aatattgagc ctgttagcac gtactggctt gataggaagt aactcaaccc taactgtaga	300
aaagggtttt ctgaagagac tcaactgctgc aaaatgcatg ccctgtattc atattgtgtt	360
atacgatgaa catgccacat gctttcattt aagtacgtgt gcgtaacacc cgaaccagga	420
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<210> 95

<211> 231

<212> DNA

<213> homo sapiens

<220>

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<223> n=unknown

<220>

<221> misc_feature

<222> (418) .. (517)

<223> n=unknown

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tgattttata acagggcggn tggttaattc tcacacagtn taaaanatca gcccctaatt	180
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<210> 96

<211> 520

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

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<223> n=unknown

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<222> (460)..(460)

<223> n=unknown

<220>

<221> misc_feature

<222> (408)..(431)

<223> n=unknown

<400> 96

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agacaaatat tctacacggc atattgcaca ggatggatgg caaaaaaag tttaaaaaca 180

aaaaccctta acggaactgc cttaaaaagg cagacgtcct agtgccctgtc atgttatatt	240
aaacatacat acacacaatc tttttgctta ttataatata gacttaaatag tacaananatg	300
ttttccactt ttttcaattt ttaaacacaa cagctataaa cctgaacaca tatgctatca	360
tcatgccata agactaaaac aattatatat agcgacaagt agaaaggntt aaatagtcaa	420
atacnagaat naaaaacgca gtaccatagt gtcgcgaact caaatcggca tttagataga	480
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<210> 97

<211> 552

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

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<223> n=unknown

<220>

<221> misc_feature

<222> (342) .. (342)

<223> n=unknown

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gtttctccag gcgactttga acccattttt tggcagtgtt catattatta aactagtcaa	120
aaatgctaaa ataatttggg agaaaatatt ttttaagtag tgttatagtt tcatgtttat	180
cttttattat gttttgtgaa gttgtgtcct ttcactaatt acctatacta tgccaatatt	240
tccttatatc tatccataac atttatacta catttgtaag agaatatgca cgtgaactta	300
acactttata aggtaaaaat gaggtttcca agatttaata atctgatcaa gttcttggtta	360
tttccaaata gaatggactt ggtctgttaa gggctaagga gaagaggaag ataagggttaa	420
aagttgttaa tgaccaaaaca ttctaaaaga aatgccaaaa aaaagtttat tttccaagnc	480
cttcgaacta ttttaaggnaa gccaaatcat ttcctaaatg gcatatcctt tgtggggatt	540

tcccattaat an

552

<210> 98

<211> 524

<212> DNA

<213> homo sapiens

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<222> (203)..(247)

<223> n=unknown

<400> 98

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atatatatgc tattcagaga aactcaaadc cccgaattct cctgtggcat gttttatatac	180
agacatttaa aatctgttta ccaagaaaga ccaggatttt aactatatgt aggtttctgc	240
ttacagttgc aaactatcag aagcctgtct atatgataga gccagataa acctgagatt	300
tagaaaagca agtcatttat tctcctgagg ctgttttagt ggcacttttg tgacaagaat	360
gacctccta atgctttact acacaactta accagatcta tcagtcatga taaattagac	420
ccagtcacac tttcaatcca gtctactctg gttctgaaca tataaacaca aaacactaca	480
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<210> 99

<211> 175

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (162)..(174)

<223> n=unknown

<400> 99
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gaagagttat ccttattcat ttatttacct atttacttgt aggagcatgt atcataaatt 120
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<210> 100

<211> 63

<212> DNA

<213> homo sapiens

<220>

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<222> (56)..(63)

<223> n=unknown

<220>

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<222> (49)..(49)

<223> n=unknown

<400> 100
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<210> 101

<211> 494

<212> DNA

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<222> (384)..(384)

<223> n=unknown

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<222> (380)..(380)

<223> n=unknown

<400> 101

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ccctggtgtc ctgccgcacc caccaggaag tgcccagcga gccagggcgt ctggccttca 180
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agatcacagc ctacgaggtc tgctatggcc tgggtcaacga tgacaaccga cctattgggc 300
ccatgaagaa agtgctgggt gacaacccta agaaccggat gctgcttatt gagaacttcg 360
ggagtcccag ccctaccgct acangtgaag gcgcgcaacg gggcggtggg ggctgagcgg 420
gaggccatca tcacctggca cccagccaag aggccatgtc atcccatcat cctgacatcc 480
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<210> 102

<211> 159

<212> DNA

<213> homo sapiens

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<221> misc_feature

<222> (60)..(151)

<223> n=unknown

<400> 102

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cttaagagag agcaagcaca antntaaca ngctattaa

159

<210> 103

<211> 452

<212> DNA

<213> homo sapiens

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<222> (362)..(440)

<223> n=unknown

<400> 103

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ggtattgaag caattggcat ggatataaag gcaatggact tcggtgttct gctatccctg 120

aaaattctgt gaaggaagtc ctcagagcac ctngtaccat caaagacaga atcaagaagt 180

tgcttgctca caaaaacagc atganaaaga aggcaaaaat taaaaatgtt accccagaac 240

ccaccaggac tcttaccctt aaggtgaact tgcagccctt caactatgaa gagatagttt 300

ccagaggcgg gaactctcat ggaggtaaaa aagggaatga agagaaaatg aaagaggggc 360

ttgaggatga gaaaagagaa gagaaagccc tgaagaatga catagaggag cgaanctgcg 420

aggagatgtg tttttcccta angtgatgaa gc 452

<210> 104

<211> 443

<212> DNA

<213> homo sapiens

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<222> (282)..(339)

<223> n=unknown

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acctgctcct gctgctcgcn ctgtgcggtg caggcaccac cgccgcggan tcagttacag 120

cttgcggtggc aactggagca tctgcaatgg gaacggctcg ctggagctgc ccggggcggt 180

ccctggctgc gtgcacagcg ccttgttcca gcagggcctg atccaggatt cttactacag 240

atttaatgac cttaactaca gatgggtctc tttggataac tggacctata gcaaagaatt 300

taaaatcccc tttgaaatta gcaaattggca aaaagtaaatt ttgattcttg agggagtgga 360

tacggtttca aaaatcctgg ttcaatgaag tcactattgg ggaaacagac aatatgttca 420

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<210> 105

<211> 521

<212> DNA

<213> homo sapiens

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<222> (337)..(441)

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<222> (95)..(95)

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<222> (216)..(216)

<223> n=unknown

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<222> (502)..(502)

<223> n=unknown

<400> 105

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actccagttt ttcttccttt tctgttgctg gaaagcaatc tgctgcaata gctgtgagct 120

gaccaacatc accattgcaa tagagaaaga agaatgtcgt ttctgcataa gcatcaacac 180

cacttggtgt gctggctact gctacaccag ggatctggtg tataaggacc cagccaggcc 240

caaaatccag aaaacatgta ccttcaagga actggtatac gaaacagtga gagtgcccgg 300

ctgtgctcac catgcagatt ccttgtatac ataccnctg gccaccagt gtcactgtgg 360

caagtgtgac agcgacacac tgattgtact gtgcgaggcc tggggcccag ctaactgtcc 420

tttggtgaaa tgaaaganta nagatcagtg gacatttcag ggccacatac ccttgtcctg 480

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<210> 106

<211> 492

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (294)..(465)

<223> n=unknown

<220>

<221> misc_feature

<222> (420)..(597)

<223> n=unknown

<400> 106

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tagcatgtga tcaatttggt gaagtaatga atagaggcag gctaatttcc acagcnccaa    360
attacaattt cntgcctttg cccttaactn acangcttgg tagtantage ttggaaatct    420
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<210> 107

<211> 418

<212> DNA

<213> homo sapiens

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<221> misc_feature

<222> (310)..(310)

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<220>

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<222> (99)..(171)

<223> n=unknown

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<221> misc_feature

<222> (296)..(330)

<223> n=unknown

<400> 107

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aaacttgga gcaaagtcta gggaatgaca tgctgtaggg aataaggtct ttgaaaaggt	300
cctacatgtn cttaagattt tagaagaaca ttcacatgtc cagggtgtg cacacactca	360
ggaaaaatgc aggcaggccc cagtctctta actctggctg gccataggct acacataa	418

<210> 108

<211> 398

<212> DNA

<213> homo sapiens

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<222> (56)..(56)

<223> n=unknown

<400> 108

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tcgcctaag actttggggg tggctctctt gtaattaatc tgtgttgga aagaatgtct	180

ggaacatgga cttggcggtc agtaacctgt aacagagcta caactaggaa aattagagtg 240
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<210> 109

<211> 372

<212> DNA

<213> homo sapiens

<220>

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<222> (264)..(364)

<223> n=unknown

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 gtcttcctaa ttaaaaatac cacttaaaaa agtgaggcag caaaagcatg aactggagtc 180
 agtgggtctgt ctgggttaaa attggcccca cgatttacta cctatgactt caagcaagtt 240
 gcttaacctc gcatttcac ccanttcatt atctcatttg tgnaatagag gtaaataatt 300
 aaccngtac tcacagggaa taccgagatt atgcatgtaa agtgcttacg agtgccttag 360
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<210> 110

<211> 533

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (2)..(2)

<223> n=unknown

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<222> (258) .. (258)

<223> n=unknown

<220>

<221> misc_feature

<222> (438) .. (438)

<223> n=unknown

<400> 110

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cagattatctt aggaaatata tcagcaaagg attttttgtt atgcttatct cttganacaa	180
aatatttatt gtacagatta tacattgtga tttttttgtt actgagtata ttgtttgtgc	240
ccagaaaaat ctaaaaanat gtgggttgac ttctaagaga tttaagaaca agtcacctct	300
agtttttaag acagttccct tgatatttac ctatccagta ccatctcata agaataactg	360
cctgtaagta tcagaaagtt gagaaatgct ggtaatgtga cataaacttc tcaactgttct	420
tcactgagat aggactgnct tatcttggtta ttgataaatt atttaatttc tcctgaataa	480
ttagcataat ctcatgtgat acagaaacat cttaattagc aaataaattt ata	533

<210> 111

<211> 491

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (375)..(484)

<223> n=unknown

<400> 111

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agattatgct aattattcag gagaaattaa ataatttatc aataacaaga taagcagtcc      120
tatctcagtg aagaacagtg agaagtttat gtcacattac cagcatttct caactttctg      180
atacttacag gcagttattc ttatgagatg gtactggata ggtaaataatc aagggaactg      240
tcttaaaaaac tagaggtgac ttgttcttaa atctcttaga agtcaaccca catcttttta      300
gatttttctg ggcacaaaaca atatactcag taacaaaaaa atcacaatgt ataactctgta      360
caataaatat tttgnttcaa gagataagca taacaaaaaa tcctttgctg atatatttcc      420
taaataatct gtataatgna agctacaaaa caaatcggtt ctctgggtccc acctaatgct      480
atcncattaa t                                                                491
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<210> 112

<211> 503

<212> DNA

<213> homo sapiens

<400> 112

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gaacagtatc ttcaaggcac agcagacagt actaaacaac tcaactcggt caaacctaac      60
tttctggcca gcacttgtag aatcaaaggc tccccagtaa tttgattagc attttcatca      120
ttttgtaatc ttataaacac cttctccagt ggggaagaaa tagcccaaat gggaatttta      180
ggtaacctag acttcggctg ccaactgtgc ctaatatcct agtaatgtta acctttccag      240
taccagtatc agaatacccc tacaactggg cattttaaac aggcaaaca gtattacaca      300
cacttaattt tgttcattcc agccacatga agtcaaagga tgtttctcta taagaaacta      360
caatagatct ttgaaacttt gcatgaagtt gttttagggg ccatacttca agtgacagga      420
aataacaaat agcatacaca cacatttcat taagtggggg cttataaaat ctctagaacc      480
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ctgagaagtt ccttgctact tat

503

<210> 113

<211> 338

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (71)..(71)

<223> n=unknown

<400> 113

tcagcaaagt tctttctata aagggttagt tagtaaatat tttagggttt gcagaccatt	60
aggtctctgt natggctact cagcactacc acggtagtgt gaaagcatca atagataata	120
tgtaaataaa tgagtataat tgtgttccag taaaactatt taaaaatact taccatgggc	180
tggatttggc ctgtggccat agtttgctca gtctgctcta tagtattctg ttacatgcat	240
gtaccataac ttagccattt tattgtcagc attcaaattt tttccagtaa gagtatgtgc	300
atagaaaaaa attgtgtatt tcactttaaa tatactat	338

<210> 114

<211> 436

<212> DNA

<213> homo sapiens

<400> 114

aagtaagctt ggtgattata tttagtggag ttacttgaaa taggtcattt agtttacata	60
cagtttaatt ctcatgccac aattaataag gtatcacatg actgcaaaat aactgcagc	120
aaactttcta gcatctgata ttggataagg atagcttggt ctagaagttg gagattaatc	180
tggctctgtg actggcagca ttagagactg tatctgatgg ttggtgtgag gatgttggtg	240
acagttctga aagttagcca tcaattcctg tgcagggtgg agtcagaccc agtgacttcc	300
ttttcaatgt cagcaagagt tttctcatgc ctgctttggg cactttctct tggaaacttc	360
acgcatttga cttgcagctt cttgaccgga ggaatcaact gagctcccag tgctggctac	420

cttggggcaa aataaa

436

<210> 115

<211> 539

<212> DNA

<213> homo sapiens

<400> 115

gttgtctgtc tgctgctttt attgtttatt taaaatcaaa tatgttttac aaatgttttt	60
tcagacaaga ttctgtaaca tcatgtaaag cttttttgta cattcttggt gttaacctcc	120
tggcttctct tcacacacat cttctaaaaa agaaggatgt gaaagaacta ggtcagtcta	180
tgactttgca atatgtgtta tatagtatgc atttatcttg tatatcagta atttgatggt	240
tatgagagat gaatccatga gggaaatggag ctatcagaac tctaattgttc caggatataca	300
ttctatgccc cacactgagc actggggaac tgggggacta gagtcaaaaa tataaatttg	360
cccagactct aatgttattc tattttttct tctgttgaac ttaccaggct attgtaagac	420
tcttgatagt tgaaactgct tattttttcct cctgtaattt taactaattg taaaatgatg	480
tggcatttta tgttttaatg agaatgggcg attcatttaa aaaagcttgt ttagaatat	539

<210> 116

<211> 340

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (15)..(332)

<223> n=unknown

<400> 116

tacaaacaat aggangctta acgaaaaaat aaaaggtaaa aanaaaaaag aaaaagaaaa	60
acaagtattc ttaactactg aaaagtaaac agcctttttt aaaaaagact tcaacataaa	120
aatgcgaaaa ngtagttgtc atctctaadc caaatacatt cctagagnaa aggatcntcc	180

atggtgacag ggtnacttac agctgtatnc ttattttaa	gctattcnta	ttcctttttna	240
gttattttctt cnttgcaaat tcaattggag atctgtgcaa	ntctngcaaa	atattcnttg	300
gattanaaaa actntataaa aaantgatca cnacctgcaa			340

<210> 117

<211> 289

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (230)..(230)

<223> n=unknown

<400> 117	
gttaagtgtt aataatTTTT gtgaatttat acacaccta	acgttaagta cacaaatatt 60
ttatttgttt tacaaaaaag gaataagtaa ttataaatt	aagaagttac ctataaaaat 120
aaaaagataa caacctatc atatagctta tttttaaatt	acctgaaaaa cgatattcta 180
cactgtttcc tttttgactc tgagttttca aactgttact	tctcccatan ttctcaatcc 240
atttcactca gttgcacagt cttttaaacc ctgtaattgt	cataccaaa 289

<210> 118

<211> 591

<212> DNA

<213> homo sapiens

<400> 118	
tcacatattt gaaaaacatt tcaaaaccct ctaataagta	tttaatgaaa ataaatttat 60
cgaagagaaa caatgaccac aaaattaata ctaccaa	atc attactgaga ctttttgcat 120
tacaatattt ggagagtagg tgaagaaaat atagaacaga	acatgaacat tttaaaatga 180
tattccaccc aagctttatc tttttgctaa atcttg	tgga cactagaata tatattcaag 240
atgttggtaa agatattcag caagccatac ttcaa	agatg ttaaaacagc cctccaccaa 300
taatatggca ttgcaaacc ttttatccca tcccttttca	gttaaaagag agaataatga 360

cagagattta gtaatagtga ccaaaataag aaatcagtat agtcaagaaa gatatgtaat 420
tattcaacat catttggtac ggatagatca atgcaactca ctaagtggac aacattgtga 480
ggggagtggg taacatgatt cagagtcctg tgggtaaatt catatgcaat aatcttattc 540
ccaatcaatc tgtaaagtaa aagcactaca tccacattaa cattataaca t 591

<210> 119

<211> 402

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (153)..(153)

<223> n=unknown

<220>

<221> misc_feature

<222> (388)..(388)

<223> n=unknown

<400> 119

ggaagctaca gtttaccttc tgatccctgt tattttttcag ggctagtagt agaatgccaa 60
caagaaagat cacagataaa aaataaagaa atagcctttc gtgtgttgag agctagactc 120
taccagcaga ttattgagaa agacaagcgt canaaciaag tgctagaaaa ctgcagggtg 180
gaacaagagc ccagtcagag cgaattcgga catataatct caccaggat agagtcagtg 240
accacaggat agcatatgaa gttcgtgata ttaaggaatt tttatgtggt ggggaagggcc 300
tgatcagct aattcagaga ctgcttcaat cagcagatga agaagccatg ctgaactttt 360
ggatgaacac cttaaatacag caaaatanat actaacttat ta 402

<210> 120

<211> 143

<212> DNA

<213> homo sapiens

<400> 120

ggaattcata cagcaatcaa agggctttac tgtctgtacc cagatgctca ttgttattga 60
atgactcata ttcttcataa tttttattta aaagttgcag tctaagtctt aactttaaca 120
tgattaacag tattatgggt ttt 143

<210> 121

<211> 444

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (408)..(429)

<223> n=unknown

<400> 121

gcagaccaat gaggtagaaa ctgccccatt ttgaagggtga ggaaattgag gttctgggta 60
taactttctt tggtcacata atattaaatt ttacaatttg agccttgagc aatacacaaa 120
accaccacaa aattagattt atagactcaa aatgaaaaca tcagcttact ggtttgtagt 180
tcataccagt catacattcc aaaacatggt ttgagtcctta ctctgtgcct gaccttgtgc 240
ttgataacag ggatataatg ggaagcaaca ctccagtggc cagatgctca cagtcttatg 300
gaggagccca aataatatct ggggaagtta aagtccatat aatgactgga taagagtaca 360
atacaggtgc catggggaca cgtgaccatc acttgaagac tgcttggnag ggccgcgcgt 420
gtgtcatgnc tatacgataa acat 444

<210> 122

<211> 413

<212> DNA

<213> homo sapiens

<400> 122
attctttttca ttctcagggc atattctact agagatgtac tgcctatgt tttgaagtca 60
cctggaagag ttcttagtgt ggttatatga ctacatcaag agttttttac ttttgatgat 120
tagggactgc tttttaaaac ttactttact ccataatctt aaaataactca tacagttcca 180
cagtcacatt tacactaaca aggcataattt gaagtccagc tttcatcctt gatcctgcta 240
ctctaggctc tcctttctcc taaagataag catttttcatt atgtatcatg tttatcgat 300
aggcatgaac acacgcgcgg ccccttccag gcagtcttca gtgatgtcac gtgttcccat 360
ggcaacctgt attgtactct tatcagtcac tatatggact taacttccca gat 413

<210> 123

<211> 447

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (382)..(382)

<223> n=unknown

<400> 123
gaattcaaca acggtatcat ggccttgtat caagttgaaa aacaactgaa caataagaaa 60
atttcaccag cctcgaaaga caacaacaag tttctaggat atctcaatga caagagtgat 120
ggatacttag gtagggaaac gctaattgcag gaaaaactgg caacaacaca atttatatca 180
attctctttg taggcagggtg ataaaaaatt caaggacaaa tctcattatg tcattgtgca 240
tcatatataa tctcttatga gcgagaatgg ggggaatttg tgtttttact ttacacttca 300
attccttaca cggatatttca aacaaacagt tttgctgaga ggagcttttg tctctcctta 360
agaaaatggt tataaagctg anaggaaatc aaacagtaac ttaaaaatga aaacaaaaca 420
accacaacc tagataacta cagtgat 447

<210> 124

<211> 69

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (20)..(59)

<223> n=unknown

<400> 124
atattcataa catttatgcn acatgaagnt tctgnanggn ctttgttgtn tgataagana 60
tctatttca 69

<210> 125

<211> 202

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (195)..(195)

<223> n=unknown

<400> 125
cagggtagaa gaatccagtc aggaccaagg gaggagagtc caggaaaatg ccatgagcag 60
ctctgtagca tgaccttggt gggctgggtt aaagtagggt ctgccaccag tcatgtgaca 120
gaaaggtacc tcatgcactt cctccttccc ccagaaatca gcctccagga gtgaggaatg 180
agcccagaat gagantttag ag 202

<210> 126

<211> 363

<212> DNA

<213> homo sapiens

<400> 126
cactataata gagatagaag atacattaag aaaattcagt ttgtatcaat aaaacagatc 60
aacacagaac aaggaaacac catagatatt tgtaaatgag atcttctctt ttgctactgt 120
gtatatatat tcctttatat ttatacaaac tcacaacaca tgacatttca tatttcatat 180
gccactgaga agaggtgtca gtatacagaa cataggaaga agaaaaaagc atgagaacat 240
ctgcttagtt agaattctgat gaggagagac gtgagagcta ttgttcctct ctctgctcag 300
gcctatcgag aggcaactgc agttttgcta attgttcctc ctgaggattc tgctcatact 360
gct 363

<210> 127

<211> 448

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (411)..(435)

<223> n=unknown

<400> 127
ccaagctaca gattcacact ttctggccta aaccctaattg ggatgagggt tttcacccca 60
ggccatgctg gtggtgattt tttagcccct aaataaaaca ctggactatt tcctgtttac 120
ttcattgatt gcaactacaa aggtggactc aaagcaaagc acaatcatgc cagccaacat 180
tccagaattc tgctgagaac tccaagtctg tgaggggaga ggtttttacia gccagacagg 240
cctggggggac tgcagtcccc aaggagaccc tgccacatgc tggccctttg agtgagaatg 300
ctgcatcttt ctacatatct tcatgagaat actgagaatt ggattttcct tttcaaaatg 360
cactttgctt tttttgatgt tttgttatgt tgagatgttt ctaaagaaag ntttatgtaa 420
ttataagatg agcngtgaa ttgtacag 448

<210> 128

<211> 519

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (512)..(512)

<223> n=unknown

<400> 128

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acagaaaaac acaagaaaac ttttatactt ttatatttgg gaaaaggaac tggatatctca      60
gatacaaaat aatttacaca taagccatac aattttatatt tatatagaaa taggtcatta      120
ttacaacagc tgtacaattc actacgcttc atcttataat tacataaaaat cttttcttta      180
gaaacatctc aacataacaa aacatacaaa aaaagcaaag tgcattttga aaaggaaaat      240
ccaattctca gtattctcat gaagatatgt agaaagatgc agcattctca ctcaaagggc      300
cagcatgtgg cagggctctc ttggggactg cagtcccca ggctgtctg gcttgtaaaa      360
cctctcccc tcacagactt ggagttctca gcagaattct ggatggtggc tggcatgatt      420
gtgctttgct tttgagtcca cctttgtagt tgcaatccaa tgaagtaaac agggaaatag      480
tccagtgttt tathtagggg ctaaaaaatc cncaccag      519
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<210> 129

<211> 416

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (345)..(396)

<223> n=unknown

<400> 129

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agacaattcc cggaaggaag tccaacgaag gatctctgct catcagccag ggctgaagg      60
ccaggaggag tcaactccgc aatcagatgt tacagaggat ggtgagagcc ctgaagatcc      120
```

ctcagggaca gagggtcagc tgtccgagga ggagaaacca gatcagcagc ccctgagcgg	180
agaagaggag ctagagcctg aggccagtga tggttcaggc tcctgggaag atgcagcttt	240
gctgacggag gccaacctgc ctgctcctgc tcctgcttct gcttctgccc ctgtcctaga	300
gactctgggc agctctgaac ctgctggggg tgctctccga cagcngcca cctgctctag	360
tttcctgaag aaaaggggca gacttccttc acattncagc aatttcccaa ctgact	416

<210> 130

<211> 379

<212> DNA

<213> homo sapiens

<400> 130	
gtcaggtggg aaagtgctgg aatgtgagga gtctgcccct tttcttcagg aactagagca	60
ggtggggcgc tgtcggagag cccccccagc aggttcagag ctgccagag tctctaggac	120
aggggcagaa gcagaagcag gagcaggagc aggcagggtg gcctccgtca gcaaagctgc	180
atcttcccag gagcctgaac catcactggc ctcaggctct agctcctctt ctccgctcag	240
gggctgctga tctggtttct cctcctcgga cagctgaccc tctgtccctg agggatcttc	300
agggctctca ccatactctg taacatctga ttgaggagtt gactcctcct ggcccttcaag	360
gcctggctga tgaacagag	379

<210> 131

<211> 426

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (37) .. (396)

<223> n=unknown

<400> 131	
tgaacctgta gactggcctg catgaatata ggggtgncgt gaatgaaact ncccacatga	60
actttatgtg ctacnattta actgcagcct tgaacacaca caaaaatatt cttaanggct	120

cagatttagc aaacacagaa gaattttaaa atgagctctc ctttcaaccc ttgttaacaa 180
 gtgcctaana atggaagtac ctgttcagat taatcaaagc aataggattt gatttgatta 240
 ggtatctttt tacaccagta tgttattttt aaccaaaatg taaagttctt attaaactca 300
 ttacctgcca ttgtgattgt cccatcatgg cccacctggg ttcttgatgt tgtaaatnac 360
 atcaatgcat ctgctgtggg tcctttgctg agatgncttc gaaggaattt tgttttagcc 420
 atatcc 426

<210> 132

<211> 227

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (149)..(202)

<223> n=unknown

<400> 132
 cagaaaagta acatgaattg cttttataaa acattctaatt attgctaaga agcaggccca 60
 ttaatagaca aacagaaaag aacatgccaa cgttgtctat ttgtagatta ataaataggc 120
 aattatttta atatacatat atgtcagcnt tgaactttgg aaaacagctg ctttgtagtg 180
 gaagtccaac ttggtcaaatt tncatttttt aatcgaagtg aatgttg 227

<210> 133

<211> 515

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (463)..(486)

<223> n=unknown

<400> 133
actgcgccgg gccaatTTtg gTTTTtcatg gaggactttt agcaggtctc aaaagTtttc 60
ttctaatagt tttcttggtg ttctatcatt cataggtgtt gaatttacca aactttttct 120
atttcaagta ttacatTTTT actttgttca agtaatattg tatcatatta aatgaacatt 180
gcattgtgaa aataccctgc ttagtcatgg tatgtaatca tccttatacc tttttgtatt 240
ctttttttta atattttctga gaattttctgt gtctaaattt aaataggatg ttgtttcgta 300
atcatcttgt gattcttttg tctcctttgg gtattattgg ctaatagatg aattaagaaa 360
tgttacctct tctactgctt gaagtttttg tgagaaattg atgtttttca ttaagtgttg 420
atgaaatgta caacttaagc agtttataac agctattcta tcnaaaaaga tataatTTTT 480
ttgtcnatgg atataagtat attccaatat atata 515

<210> 134

<211> 391

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (107)..(382)

<223> n=unknown

<400> 134
taaattattga taaaaataga aggtaggggc atttgccctgc ttcatacatt ccaaaatcaa 60
agggcagttt tactaattat ttttacattc agtaactcat ttgtctnaca cagtaaacac 120
aaatattacg naacannact atattcatat tcttcacctt aaaaatggna aaaattttga 180
gttatttatt gattgtagtn cngganccct ncntatTTtn tcaaattatt ccatgtcaag 240
tgcctagaat aattgttcat nacatactat gaaatnanaa ataccgatag agatggatta 300
caaaagtaaa ctgaaaaaan atcctatgaa ttgtttcatt atatataata tagnatatac 360
ttatatccan agagcaaaaa anttatatct t 391

<210> 135

<211> 398

<212> DNA

<213> homo sapiens

<400> 135

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gaaaaactta gtcaccctga aaaccacaaa aataaataaa acttgtagat gtgggcagaa      60
ggtttggggg tggacattgt atgtgtttaa attaaaccct gtatcactga gaagctgttg      120
tatgggtcag agaaaatgaa tgcttagaag ctgttcacat cttcaagagc agaagcaaac      180
cacatgtctc agctatatta ttattttattt tttatgcata aagtgaatca tttcttctgt      240
attaatttcc aaagggtttt accctctatt taaatgcttt gaaaaacagt gcattgacaa      300
tggggtgata tttttcttta aaagaaaaat ataattatga aagccaagat aatctgaagc      360
ctgttttatt ttaaaacttt ttatgttctg tggttgat                                398
```

<210> 136

<211> 482

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (283)..(356)

<223> n=unknown

<400> 136

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ggcgttgctg aatactgtcc actaactgta caaaatattg actgcatgcc tcgcaaacac      60
caaaatatcc gctggaatgc catagaaata aataacttct gctataaaca catgaaaaca      120
tatcaaactg ttatctcttt aaacatattg taaataaaaa aattaccagt acttctacac      180
aataaatatt aagaaacat tgacatagtt gaaatgcact catataaatt aacaacttta      240
attacattag ccaaacagac attgggttaa gaactgcatg tannnnnnnn nnnnnnnnnn      300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnncatc      360
aaccacagaa cataaaaagt tttaaaataa aacaggcttc agattatctt gggctttcat      420
aattatattt ttcctttaaa ggaaaatatc aaccattgt caatgcactg tttttccaag      480
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<210> 137

<211> 222

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (6)..(178)

<223> n=unknown

<400> 137

actgantcca gaacactgca tagaaatnan tatggaatag cttccatatt ggnttccttac 60
 caatgtactg cagagataag ttttagctgac ctggctacca tattttttgc ccagtttggt 120
 caagaagcca cttacaagga agtaagcaaa atggtgaaag atgcattgac tgcaattnag 180
 aaaccactg gagatgaaca gtctttcagg gtgttttagaa aa 222

<210> 138

<211> 351

<212> DNA

<213> homo sapiens

<400> 138

cgtacacctg tgctgtgac tggcgggtcca agtccccac acacacatct tgetgggtgcc 60
 tttccctgaa gtcaccaccc aggggctggc tgtcatcagc ccattcttgt ccagcaggg 120
 taccgagga atgataaaac agaattgtgt tgaattacac aaaaaaatgt tccctgcagc 180
 aggtcataaa ctctgtgaac taatgaagct gacaaacaga gctggagtag gtttccctc 240
 acccttcctt tcctcctagc tcagcaaggg gtgctcaggt tcaggatggt gtttggtgat 300
 cagggtcaacc aggtccgca agaaaactta tcaggagatt ttatttcag a 351

<210> 139

<211> 428

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (191)..(191)

<223> n=unknown

<220>

<221> misc_feature

<222> (400)..(400)

<223> n=unknown

<400> 139
cgccacagct gcagtcagca ccgtcctcac tactgctgag gttatagctc agcaagtgtc 60
agataaacac ttggaagagg gtccggcttta tcctcctttg aataccatta gagatgtttc 120
tctgaaaatt gcagaaaaga ttgtgaaaga tgcataccaa gaaaagacag ccacagttta 180
tcctgaaccg naaaacaaag aagcatttgt ccgtcccag atgtatagta ctgattatga 240
ccagattcta cctgattggt attcctggcc tgaagagggt cagaaaatac agaccaaagt 300
tgaccagtag gataatagca aacatttcta actctattaa tgagggtcttt aaacctttca 360
taatttttaa gggttgaatc ttttataatg attcataagn ccttagataa gatttacttt 420
aacagtct 428

<210> 140

<211> 576

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (572)..(572)

<223> n=unknown

<400> 140
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 cttttaaaga gaacgtaggc agaataattc agacagaaac cataaataac cagaaggcaa 120
 agtgaagcaa aattgtctca tgtgatgttt atcccaattt atatcgatat tcttctatca 180
 atttttagac tgttaaagta aaatcttaat ctaagtgtct tatgaatcat tataaaagat 240
 tccaaccttt aaaaattatg aaagggttaa agacctcatt aatagagtta gaaatgtttg 300
 ctattatcct actgggtcaac tttgggtctgt attttctgca cctcttcagg ccaagaataa 360
 caatcaggta gaatctgggc ataatcagta ctatacatct gggagcggac aaatgcttct 420
 ttgttttgcg gttcaggata aactgtggct gtcttttctt ggtatgcac tttcacaatc 480
 ttttctgcaa ttttcagaga aacatctcta atgggtattcc aaaggagggt aaagccgacc 540
 ctcttccaag tggttatctg acacttgctg angcta 576

<210> 141

<211> 417

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (71)..(71)

<223> n=unknown

<400> 141
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 tgaagcttgg ngggaagaag ggattctggg ctagaaaggg tgcagaagcc tgaagtagaa 120
 agagacggga ttttgggtccg ggggtggagag cgaatgcatt gaaaagggcc aaggcccagg 180
 ataaggtaga catttaaagg ggtacggatg cccaaggtag agcagacact tgaggagacc 240
 agctcagcaa acggaagaca cttaaagtgg taggttctca agagagaaga agtttttaag 300
 actagagcta agcaagacat ttaaaaggac atggggttggg atttggggaa cacgttttat 360
 tccagaggca ggaacaaagg agtcgcttgt caaggatctg gttagagaag actaggg 417

<210> 142
 <211> 148
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (27) .. (124)
 <223> n=unknown

<400> 142
 tggttaatac atacagtgat ggcccgcccc caccgacctc gggaccaggg cgcgggggcgg 60
 ggacnaggac cggggacaga tngtnacaag gcgggaggnt tncgaactca ccgttgaaac 120
 atcncgcaaa taaacacttt gtagatag 148

<210> 143
 <211> 394
 <212> DNA
 <213> homo sapiens

<400> 143
 taaaaactca gtctcttcta gttctcagag aagggtttca tcttctaaga tatccctaag 60
 aaattcttca aaagtaacgg aatcagcatc tgtgatgcc tcccaggatg tgagtgggtc 120
 tgaagataca ttcccaaata aacgacctag gctagaagat aagactgttt ttgacaattt 180
 ttttatcaag aaagagcaaa taaaagcag tggtaatgat ccaaagtata gtacaaccac 240
 agctcagaat tccagcagtt catccagtca gagcaaaatg gtttaattgcc cagtttgtca 300
 gaatgaagtt ctggagtctc agattaatga gcacttggac tggcgccttg aagggtgacag 360
 catcaaagtc aaaagcgaag aaagtctttg gaaa 394

<210> 144
 <211> 558
 <212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (530)..(549)

<223> n=unknown

<400> 144
taaagttcaa aatactatatt ccagataact ttccactggt acatcaacta ggcaactttg 60
ttatgtttat gttatatgta tcagttactt atcagcacag aattttaacc actctgctaa 120
attttgagaa aacagctaaa ctcaatataa aatttggcct acagaattat agtggctatt 180
tggtactaaa aatattccaa aagaaattta cttattttac tatattccat attctttaac 240
ttaaaatctg ctgccactgt ttagtaaaag tgggacaaat aaaattcttt aaaatataga 300
aaatacagtt cctgttaaga ttttgcaaac aaaaaatta ataaataata caatttgagt 360
actctaaaac aatatacttt gtagtctaga ttgtggtttt ggtcagtatg tctgacacta 420
tgaagattta catcagttca gggaatgagt tctaatacta ttaataaata gtcaatataa 480
ccaaacacct gacaggattc cccatatgga tatttttagg gaagtatacn aataaaaagg 540
ttaacaggnt ttttaaaa 558

<210> 145

<211> 343

<212> DNA

<213> homo sapiens

<400> 145
taatcattca ttttatctga aaatataagg aatagtatac tcaactgtgag aatgttcatt 60
ttacatttaa aatttagtat gtatttgagc atttttctga tcatcagctt ataccaagct 120
aagaagcaca gctttacata atttatttcc ctcttttcc agcatagttt cttacttttc 180
attgctgtag ttatgatttt tacaagtttt ttatcagaaa tcttctgtga gattattctt 240
catatatatt ttttacttat ttgattttat atgttcttcc tctcacctca cttaaataca 300
tgaagtttta tttttagacg tcttagccac tcctatgctg ctt 343

<210> 146

<211> 368

<212> DNA

<213> homo sapiens

<400> 146

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gcaggatgct ggcagatagc agcaacgccg tgggccacc taccactgtc cgagtgaacac      60
acaagtgttt tattcttccc aatgactcta tccattgtga gagagaactg taccaatcgg      120
ccagagcgtg gaaggacat aaggcataca ttgacaaaga gattgaagct ctgcaagata      180
aaattaagaa tttaagagaa gtgagaggac atctgaagag aaggaagcct gaggaatgta      240
gctgcagtaa acaaagctat tacaataaag agaaaggtgt aaaaaagcaa gagaaattaa      300
agagccatct tcacccattc aaggaggctg ctcaggaagt agatagcaaa ctgcaacttt      360
tcaaggag                                         368
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<210> 147

<211> 437

<212> DNA

<213> homo sapiens

<400> 147

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agccatgcct ttctgctaata cgatttttagc aagtcgaggt aaaacacatg caacattttc      60
tggcaaaagc ttaatgtcaa acaatatgtg atccatactg tgtgtcgtcc ttggggggtt      120
atttgacttt gtcacaatga cagccaacag tgagactgat aagcctgtaa aaataaaaaa      180
ataagactaa tcaaatagac atggcatttt aatctcaaag tgcaaaatca tctaactgaa      240
aatgacggca ttgaaaaatt ccagtgggta aaaatgaatc aaaacttcat tacgcaggca      300
gtggaagtgt gttgaaagat ttaccagggg tgtcaagttt tagacactca gaaaggcacc      360
attctagcca tcttgattgg ataacatgta tataacttat tccctacgat attcaaaaga      420
taatactggt ttagtac                                         437
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<210> 148

<211> 359

<212> DNA

<213> homo sapiens

<400> 148

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gtcctcctca gatacccaaa caagctggat actgtgacct ggacatggca aggatataca 60
ttcattcagc tttgtatgct tactttctgc cagctcttca caaaggtaga agttgagttt 120
atgccagttc aagtaccaaa tgatgaagaa aaaaatgatc ctgtcctttt tgccaataaa 180
gtccggaatt taatggcaga agctctggga ataccagtaa cagatcatac ctatgaagac 240
tgcagattga tgatttcagc aggacagcta acattgccta tggaagctgg gctggtggaa 300
tttactaaaa ttagccgaaa attgaaatta gattgggatg gtgttcgtaa gcatttggg 359
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<210> 149

<211> 395

<212> DNA

<213> homo sapiens

<400> 149

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cctgaagagc ataggacagt tttagacaac aaagaattgt cctgtatctc atgacttctt 60
tgaacctcgc tgaataatta tgtacataga aatcctgttt ataatgagaa aggaagagca 120
accctacag ctgtcagctg gaagctgatt tagccctaata ggctaggcta ttatattctg 180
ttgaatataa acaatgttat ataacaccaa catctgacaa gtccactctg agtgtggtgg 240
aggaagacaa aaattaagac actccatagg catgttggaa cttagcaaga ttctgtgtaa 300
atcatagagc gaccaaacad tcttgtctct tggcttatat gtgtgatatt tgctccatta 360
cccattagat cactctgttc cttcttctct ctaga 395
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<210> 150

<211> 468

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (413)..(440)

<223> n=unknown

<400> 150
cttaaattaa tataagcagc atctactaca ttcacttaga acactagata ttaccaccca 60
tgatagacca tctaaatgag aaaactgctt ctcttctcaa atttcataga atgtccatgc 120
tggtttccaa agcacatggc atctaccttc agtaagcaac acagaatatt agaaccag 180
agttcaagtt cgtatctata cactcttcag ctccaactaa gagggcctaa gggacagact 240
gttcatcaat gactgtagac taatggtttt cacccttca ggcccacagc cactttttat 300
cagaaatatt tttaaactg ttttattatt ctaaaacaca aacaatataa cttacgtgag 360
gcatatTTTT aaatcatcta tcatgattaa aggtatcttt aatatctaac tagnaatgtna 420
cagacnaata aaagggagcn acttacggta atgtgtaatt caaactgg 468

<210> 151

<211> 241

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (180)..(241)

<223> n=unknown

<400> 151
cactgtgccc tgtgaaattg gtccttttt atgtgaggtg caaacctctg catcccaactg 60
gcctggctctg agcacctcag aagtcctggg tgctgctgaa gttgccaata tttgaaatta 120
tattgttttc aaatcttcaa agtaagttga gaactcaaag ccaagtttcc tgaaaaccan 180
cntntggtn tnatnnncang gggcctntta aaacnacang tttccaanc ccttnttccc 240
n 241

<210> 152

<211> 356

<212> DNA

<213> homo sapiens

<400> 152
 gttgccacag ctggttttagg gccccgacca ctggggcccc ttgtcaggag gagacagcct 60
 cccggccccg ggaggacaag tcgctgccac ctttggtgc cgacgtgatt ccctgggacg 120
 gtccgtttcc tgccgtcagc tgccggccga gttgggtctc cgtggttcag gccggctccc 180
 ccttcttggt ctcccttctc ccgctgggcc ggtttatcgg gaggagattg tcttccaggg 240
 ctagcaattg gacttttgat gatgtttgac ccagcggcag gaatagcagg caacgtgatt 300
 tcaaagctgg gtcagcctc tgtttcttct ctcgtgtaat cgcaaaaccc attttg 356

<210> 153

<211> 398

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (342)..(342)

<223> n=unknown

<400> 153
 gaaaatctgt gatttcattt tattaggcta aaagggtaaa taggctttat tacactgaag 60
 ctgcatctat atgtcactga cataaagttg aaaaaataaa tgcaggcaaa taactagaga 120
 cttcttttaa gggggtttgg ctggttttct ctactgaaa tggccagtcg tgattaaagt 180
 gataaaaccc catatctggt ttggtatatt gtacacaaac ctacaaaaat aaactgaact 240
 tgcaatattt ttgcaaaaaa atctgtcgtt aaaactgagg ataaaatacc tgctcaattt 300
 tattttacta agtatatatt tacatttcac ccaggcagg cnattttctt ttgtgattat 360
 aagaaagagt agttgttgat taaaatttca gactaaat 398

<210> 154

<211> 422

<212> DNA

<213> homo sapiens

<400> 154
gttaatgttg ctttttaaaa atcattattt ggtttgatga ttcttgagtt tcaaaattaa 60
atgcacaatc atttttcgat catgaggaac aatgagtgac aagctcttat cccaacactc 120
ttcaagttct ctcatcgca ttggcaacca gatgcaggcc tttccagcca cggatgatgag 180
gctggctccc agtcacctca tgtgagaagc ttcattgctgt gggtggggca agagcaagtg 240
gagagtccaa gaagaccggg ggtctttag tcaagctgcc cacttacaag cagcctgggc 300
tttgacaagc tgtcgatctc ctgagtcctg tgttctact gagccatgta gggattgtc 360
agcaggacaa tgataaacat tttgtaccca cttttagcaa tcttctgaag aacgtttgaa 420
ac 422

<210> 155

<211> 426

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (416)..(416)

<223> n=unknown

<400> 155
attatgtcat gtctggtagt ttatacttta agtaatatgc tatctgaacc cggctatgta 60
cattgaggca tattttaata cactcagact acaaattaca acaacatgca ataaatagga 120
caccaacaaa aagtcagcac aaagtgaact ttactgagta ttataatcag ctctttggaa 180
tgccagtttt tcatagtgat attaagatat gggtgttaaa ttagatcaca aaaattgctt 240
ttcttttaaa tagaaaatgt tatcaatcac acggatgaag aaggatttac tcctctgatg 300
tggtgctgcag cacacgggca aatagctgtg gtagagttcc tacttcagaa tgtaaggaaa 360
atgcctccag aaaatgtata tgtatagtta ccttaagtta aagtccttag tagagntttt 420
aatata 426

<210> 156

<211> 67

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (15)..(15)

<223> n=unknown

<400> 156

aaacaatcac actgngcact ttttaattca acaataagaa caattttttt ctaggggttt 60

atagcaa 67

<210> 157

<211> 388

<212> DNA

<213> homo sapiens

<400> 157

aagtggctgc aattacaggc aaccagcctg acttaaaaca gtatcttaag gtagatgggtg 60

attagcacat gtagtatgct taacatttaa tattataata agacatcaca gcggctgtct 120

catgattaag gctgtgttcc cttgttggtg aggaaattaa ttatgacttg ataaatagaa 180

catgttttaa gaagtggcta tatagctctg gataaaacga acaaaagaat tagaattcct 240

gcggggaata tatacaagac tttatttagt caagtaaaaa aaaatcacta atgtttaact 300

gaagaaagag aaattgaata atatagttct atttcaacat gtgggttcac agattttatc 360

taaccttcca agtaaagttg ttccacta 388

<210> 158

<211> 291

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (173)..(283)

<223> n=unknown

<400> 158

tcatgttagt catgaagtta catctcagtt cataaactgc aagacatctt tgagtagaga 60

tccatctcat tttccgtaac tacacagtga tctactaaac tgattttctg taacttaagt 120

aacccataac tttaatagca ctaaacattt tttccaaatt tttcacaatt ctncacaca 180

tttgcttatg catctatatt tctgcacttg tgctttttga gaacataact gactaggtgt 240

agaattgtgg caaagggtaa ntatattcaa aatgctgaca ggnaacacca c 291

<210> 159

<211> 438

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (25)..(25)

<223> n=unknown

<220>

<221> misc_feature

<222> (143)..(143)

<223> n=unknown

<220>

<221> misc_feature

<222> (417)..(427)

<223> n=unknown

<400> 159
ccagggcgtg ggccccggccg cgganccaca ctgccccggt gacccggtgg tctcggacca 60
tgtctcccgc cccaagaccc tcccgttgtc tctgctccc cctgctcacg ctcggcaccg 120
cgctcgctc cctcggtcg gcncaaagca gcagcttcag cccgaagcc tggctacagc 180
aatatggcta cctgcctccc ggggacctac gtaccacac acagcgctca cccagtcac 240
tctcagcggc catcgctgcc atgcagaagt ttacggctt gcaagtaaca ggcaaagtga 300
tgcagacacc atgaaggcca tgaggcgccc ccgatgtggt gttccagaca agtttggggc 360
tgagatcaag gccaatgttc gaaggaagcg ctacgccatc cagggtctca aatggcnaca 420
taatganatc actttctg 438

<210> 160

<211> 407

<212> DNA

<213> homo sapiens

<400> 160
atttttcata gcagcatgag aacagacgaa tacagcaaag aacacgtttt atgaaggaaa 60
aactttgaaa acaaaggac tactttcttt gatgagagc ctttcctttc actttaaaca 120
aaacttcaaa ttatcctcag aatttgttct aattctcctt acttctgggt aaaaattatt 180
agcagtaaca gatttaactt gaatgtatat ctccagttcc ccattctctt ctctatgtag 240
tgctgcaaaa ctcaatagat ttgaaacaaa aattaccag ggaccttccc catctcccat 300
gtcctttttt cttatggccc agacctggaa gtccctcctaa gtgcttctc tccctcagcc 360
taaccactct accactatcc agttgtcaca attgcaatta catattt 407

<210> 161

<211> 325

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (292)..(323)

<223> n=unknown

<400> 161

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ggcttcctt .atctccctaa tctaatttta cctcaaagcc tgctgccacc attcagttat. 60
tctttttacc cctactcgat atacaaaata attattattt gtgatataaa agttctttta 120
agcccaagac agtgactaag ttacatctca aatattttct aatcaagata atcttatttt 180
caagtacaat attcctaggc ctctggctg ggtctctgta aagacaacat agccgtcact 240
atgtagcaaa taataaaaatt aatgtgactt gcaatattaa tcaactatta gnnaanagtt 300
catgaggcgt tgtgccattt ntnat 325
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<210> 162

<211> 464

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (236)..(308)

<223> n=unknown

<400> 162

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caaattatag aagctgttct ttgcataaca aatggcattg taatgctccg attatctaaa 60
tgcaaccatc cttgggtata tgcaggaat tgattccagg gcgctggcct gagtatacca 120
aaatacaagc atactcaaat cttgcagtca gcccattgga accaaagtat aagaaaagtc 180
agccttccat ataggtaagt tccatatccc acaataactg catttttgat ctgtgnnnnn 240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnat cataggttta gggaattaga tttgtacatt caccacaagc ctgtggcatc 360
atttaacatg taagtctgca attatcctct gaattttgaa tgtatagatg tttgttgagg 420
ctttcaagtc tacgttgaca tctctttgct ccaggttggtg tgca 464
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<210> 163

<211> 398

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (308)..(328)

<223> n=unknown

<400> 163

```
gtttgtttct gaagttagtt tcttaagtga gttttcaggt gtctctgaaa aatttataac      60
aatcatgtat tatatgtgct gtaacatcat gtacgttacc tccatctatt ttaggatatt      120
ttcctcacct atatattata gggagaataa tttagataca catgctcaga gctgagatat      180
ttctctgata aatcaggtaa caaaatgtat ttgattgatg gaattttgaa gtaaagtgtg      240
ttttatccat cagttttctga gtaacaaaga gcaccaagtt ttaatttaaa taggagattt      300
aacactangg atcagggagt ttagtatnaa gagttaaaaa aattttaaaaa acagtgtaag      360
ctgttgaaat ggcaagtga ttaatttaatg gatgtaat      398
```

<210> 164

<211> 243

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (153)..(240)

<223> n=unknown

<400> 164

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acataacaca ctaatgcaaa atccagtagc acctgaaaga ttttaagtaaa tgctgtcatc      60
atttaaatgc ttttaaatat ctgtaaaaga ctggaggaaa aaaagataaa gtacattctc      120
cagagaacaa atgtatttca aaataaaaac tgnnnnnnnn nnnnnnnnnn nnnnnnnnnn      180
```

nnnnnnnnnn tgtacaagat tcaatagtta tcacatatta acgtngtaca caagnggann 240
aac 243

<210> 165

<211> 331

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (264)..(323)

<223> n=unknown

<400> 165
ggacatttat caggaaagca tgccatcttc tcccatgatt aatgaattag tagaagaaaa 60
gaagattctt aaaggacagt cagaaagcac agaggcacct gcatctggac cgcctacggg 120
aacagccagc cccagagga gcttgcctgt gatcaacttt gacctggagc cagagtgtcc 180
agatgccgag ctccgagcca ctctgcagtg gatagctgcc tctgaactgg ggattccac 240
catctacttt aagaaatctc aggnaaacag aattnaaaag tttctagatg tcgtgcanct 300
ngntcatcgg aagttctnga aantgggtga t 331

<210> 166

<211> 239

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (237)..(237)

<223> n=unknown

<400> 166
caacatagat aacttcatca catggttaca atccagtatt tgagctttgt aagataagta 60

aacatttatt tgagcacaac aaaagtctac acacagtatt ctgggattgt ttaaaaaata 120
 agtgtattct attccatttg atagcacaaa gaagcacatt tcagcgtgaa ttgatggata 180
 tattttaaaa ctgggcattt agttaatgtg tcaaattaag cataagaacc taaattnga 239

<210> 167

<211> 388

<212> DNA

<213> homo sapiens

<400> 167
 ccagattctg acctggagag tgtgaagaca ttgagttctg atgcccagca cctgcagaac 60
 agcgccctcc ctcccctcag cacagagagt gaaggccacc acgtgttcaa ggctgggtact 120
 ggggcctggc aggcaaaaag ctccctctgtg cccaccccac ctcccatcca gctcggcagc 180
 ctggtgacgc aggaggcccc ggctcaggac agcctgggca gctggatcaa ctcttcccct 240
 gacagcagtg agaacctgtc ggagatcccc ttgtcccaca aagagaggaa ggagatcctg 300
 actggcacca agtgcactctg ggtgaaggcc gcccggcggg ctgcggggcc ctgggaacga 360
 ggggcgacac ctgctggcac ccacgaca 388

<210> 168

<211> 372

<212> DNA

<213> homo sapiens

<400> 168
 gttttttgaa tgatctctgc tccctggctc tatgatagga attctcaacc tgagtgaaca 60
 attcaaactg agattacttg tgtttagact catatatttt gataacatat gacttctcca 120
 gtatgcccc aagagctgct aataacttgc tcaacctgaa atttacagtt ttccaaatta 180
 caggttggca gagatactgg attgataaca acatccacag ttatcatata atcattctta 240
 tgctgtaaac aaaattattt tggttagcag aatttaataa ttaactgtta actacatact 300
 aggcaatatt gtagccactt tatgtgcttc atgacacctt atgggatagg tactattatc 360
 ctcatTTTTgc ag 372

<210> 169
 <211> 468
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (149)..(462)
 <223> n=unknown

<400> 169
 acaaatacca tgcatttatt tgcaatactg aaatgtcctc tttaatcaag attttccagg 60
 gcttaaaaaa atgattatcc ttgctattac ttattaaatg gtatatctag gtgccagaaa 120
 agatagaaaa catagggtaa acttatttnt aaatagcatg ttatttatat tttcaaatca 180
 tatgccccagc atgttttctnt tcaatctcta gacatctttt caggtgaaat acctctaaat 240
 ttcaagcact gtgtgcaatt gttaatctga gaaagatata ataaattcac tntacaatgt 300
 cttaaaaatt ggaaacatgg gggaaatagn nnnnnnnnnn nnnnnnnnnc caaaaaaaat 360
 tggcagtgat cattactgag tggtgtgagc caagctctga tctcagccca tttacataca 420
 cttgcctcnc ttaatcctca cnagcctcta gggaagacat tntgctga 468

<210> 170
 <211> 473
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (363)..(363)
 <223> n=unknown

<220>

<221> misc_feature

<222> (462)..(462)

<223> n=unknown

<400> 170

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agctggcact ggccctcgaa cctgaggctg aaggagggcc caggtcagcg gtcaagactg      120
gcctcaatgc ttgactcaga cacagaaggc gaaggggaca ttgcgggtac catcaacccc      180
tctgtggcca tggccattgc tgggtggcccc ctagcccctg gctcccgggc cagcatctcc      240
cagggggccac caacggcttc tcgcgcaggc tgtgccctct ctgctgagtc aagccggacc      300
ttgctggcgt gtgtgctgtg ggtgctgaaa aaacaccgag ccggcgctcc tgcagcgctg      360
ggncactgac ctgacaactcc ccagctggg acgtctgttg gattgctgta ctttgccctgg      420
ctgcctttga gtacaaaggg gaaaaaggct ttgaacgcat cnaaaagctc aaa              473
```

<210> 171

<211> 135

<212> DNA

<213> homo sapiens

<400> 171

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ctcgcccagg cttttttatc cttacaatgt aactttttta ttttatttta ctctatgatt      60
attcaggaat attatctctc agataagttt agggtagat ttctgatttg taacttttta      120
ctgtgttgat ttctt              135
```

<210> 172

<211> 83

<212> DNA

<213> homo sapiens

<400> 172

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aaccctaaac ttatctgaga gataatatc ctgaataatc atagagtaaa ataaaataaa      60
aaagttacat tgtaaggat aaa              83
```

<210> 173
 <211> 609
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (256)..(398)
 <223> n=unknown

<400> 173
 gatagagata ctatagcttc cagacctgtt ctccttttcc aaaccagtca ggctttcctc 60
 tttccactct cctgcctcct cctatccctt gcttgccctgg tagagatgga atgggtagca 120
 gatgttgtct cttaatggca tagcctaagg taacttatta ccacaaatcc ttctccaat 180
 tgtagtgtgt ctgaaatgta atctcctttt attgtagtgt gtctgaaatg tgatctccaa 240
 gagcgactgc tctgcncatc cctactcgnn ggcacangga nggctcttna annatggnnn 300
 nnnngntcng atctcagntc tgnagtctgc taggtgtgtg gccttnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnta ataatagttc ctatctcata 420
 aagttgcttt gaaaattaaa taagcagagt atacttagaa catgggctgg cccaacccaa 480
 gttatcaata aatgttaact ttataactt aacttaataa gcatgattct gacagtacca 540
 tttttttaat ataagagaag atgataattt tagtttacct ccatcccat tagtgattgc 600
 ttgctctcc 609

<210> 174
 <211> 134
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (21)..(125)
 <223> n=unknown

<400> 174
 cttctgcttt ccaactgtgtc ntcttttctg tccctcncaa agntctgntc tcccttgact 60
 aacttcanaa tctctctctt ggggaggagg ngggggcang agaaccagtc tnggcaaaga 120
 cantnccaaa ccaa 134

<210> 175

<211> 353

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (64)..(277)

<223> n=unknown

<400> 175
 aggaaataac aaagtgaaga gacaacccat agaatgtgag ataatatattg caaactatcc 60
 atcnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnncagct tgtagggagg catcaggaag tttccaacca tgggtggaagg caaaagggga 240
 ataagtatct cacatggcag gtgcagggca aagnnanggg ggaaggggaag tgccacacaa 300
 ccagatcttg tgagtactca gattttgtga ggggtgcttg aggtcatgga tac 353

<210> 176

<211> 389

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (89)..(307)

<223> n=unknown

<400> 176

```
cacatcaggg taaatgggta tccatgacct caagcaccce tcacaaaatc tgagtactca      60
caagatctgg ttgtgtggca cttcccttnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      300
nnnnnnngat ggatagtttg caaatattat ctcacattct atgggttgtc tcttcacttt      360
ggtatttcct ctcgagccga attccgagc                                389
```

<210> 177

<211> 435

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (5)..(413)

<223> n=unknown

<400> 177

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tttgntttnc cctctaaaag tgaataattc cngtagtttt caggtctgct gcaaataaaa      60
gaggggagcc tggggaggct ggtttacaaa cttcaggaat tngatcaanc acacccaagc      120
tctagtcctt gtagtagtaa caagatgact ggctttctgt gcgttggtcaa annnnnctaa      180
gcactttaca tagnaatgcct cattcntnct tcacaaccac cctgtgtatt tttattcctn      240
gattttacna aaaagggnagn tgnagtttcg agtggttgat actttgcnga tagncatata      300
gctaanaagg atagatctta tnnttaaacc caggcagata acgnagccta tacacttaac      360
ctcttaagaa tcataattcc aaattgtatt nctntagtca gtntacagta gangaaatca      420
ttccagggac cgtggg                                435
```

<210> 178

<211> 511

<212> DNA

<213> homo sapiens

<400> 178

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tttctaagca ggcacagaat gagataagtg agcactgtgg ctggtgggaa agggagggaa      60
acaggtttaa agtatgtttc aaggctgcat tctgagacta ggagggaaag gaagaaaaac      120
ttttaaattc ttctcaaggc tgagatattt gactacagtc tcatgcccaa aatgtttcta      180
ttctacactg agacctgata gataatttgg ctgcatacct ggagtccagt gtgtgcacct      240
gcccctccca tcccatactc gcagccagtg gaaaagtctg caaaaggaag ccagctggga      300
gtgcccacca gagtcaaagt ctggggcagg ctggtggact caagaggagt cttaaattatt      360
ggaaatgtca tcacaaacca tctgggaagc ccccttctct taaaaggac ataaagtcaa      420
agtgaacagg tgtgtcact ccaagcccggt gccacaacc acagtgcctt ttcacattca      480
gagtcatggc cactaagcca caaaattgtg a                                     511
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<210> 179

<211> 547 /

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (161)..(161)

<223> n=unknown

<400> 179

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gcccacccag ctattgaaaa ggactttctg tgggcacaca ctctgtttca gactgggctg      60
ggggcacacg tgctgggtga gacagtgggc cctcgtcccc tccccctcc caattctctg      120
ccccaggcta atattaggga ctggggaggg gaccaccaga ngggagaggg aagctgctta      180
ctttgggggt agacctgaa gcccctcctc ctccccccac agatggggac aggaggtgat      240
ggggtgctca gaacctgca gctcccactt ctttagcccg gcagctgttt gggggacaag      300
agagggccag ggtctgtgct tctgctcccg gcactgggtc gggagtctgg gaagagtgga      360
```

gaagaggcag ggtcaggcct cagcatctca catccaccac ctccaggagg ggagaccact 420
 ggtaagtcct cctcctgctc aactcaaggg actcagaccc tttcttgact gagacgcatg 480
 agtgccttct tgggtgagaa cagccccagg gtttaagttg ggcgtcctaa gcagctgcaa 540
 gcaagtg 547

<210> 180

<211> 299

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (106)..(106)

<223> n=unknown

<220>

<221> misc_feature

<222> (267)..(267)

<223> n=unknown

<400> 180

cgctctagca tttgctctac gcgcgcagga gatgaaacac aagggggcct gacagacgtt 60
 gctacagccc cagcagggga gtgtttgtcc cgcctacagg ggagngcctt aggggatttc 120
 tttaggaaaa aaagaaaaaa agtctggtgc ttttttcttc accattgaaa aactgtgctt 180
 gttcattagg cgtaaagagt taagaatact tgcacggagg ctgggaacat ttgcagaaga 240
 ggagcttgag tcttgccaca ggtggtngcc aagggaact gggtgccgaa ggggtcctg 299

<210> 181

<211> 429

<212> DNA

<213> homo sapiens

<400> 181
tccaggacca aggaaagagg agcgtgccct ctgagaagtt aaccacagcc atgaaccgct 60
tcaaggctgc cctggaggag gctaattgggg agatagaaaa gttcagcaat agatccaata 120
tctgcaggtt tctaacagca agccaggaca aaatactctt caaggacgtg aacaggaagc 180
tgagtgatgt ctggaaggag ctctcgctgt tacttcaggt tgagcaacgc atgcctgttt 240
cacccataag ccaaggagcg tcctgggcac aggaagatca gcaggatgca gacgaagaca 300
ggcgagcttt ccagatgcta agaagagata atgaaaaaat agaagcttca ctgagacgat 360
tagaaatcaa catgaaagaa atcaaggaaa ctttgaggca gtatttacca ccaaaatgca 420
tgcaggaga 429

<210> 182

<211> 259

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (254)..(254)

<223> n=unknown

<400> 182
tgggcaattt gggctgggat ctgcttgagt ggttcttctg gtcttgattg gcctcattca 60
tgtgttagct gccatgttgg ttgggctagt atgacttcag ctaggaaagc atgtttctgc 120
ttcatgtggt ctctcattct ccagcatgct cactcaacat gttcatggct gggttaagggt 180
ccaacagaca tttataaggc ctcttgaaac ctaggcttgg aactggcata cagtcacttc 240
ttccacattc tatngatca 259

<210> 183

<211> 421

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (22)..(22)

<223> n=unknown

<220>

<221> misc_feature

<222> (366)..(366)

<223> n=unknown

<400> 183

atggggagag agaagctgaa antgccgact gcgacctgca gatcaccaat ggcgagacga 60

aagaagaata tactgatgat aatgctctga ttcctaagaa ttcttctgta attggttagaa 120

gaattcctat tggaggtggt aaatctacaa gcaagacata tggtataagt cgaactgaac 180

cagcgatggc aactacaaaa gcaattgatg actcttccgc gtctatttct ctggcccagc 240

ttacaaagac tgccaatctg gctgaagcca atgcttctga agaagataaa attaaagcaa 300

tgatgtcgca atctggccat gaatacgacc caatcaatta catgaagaaa cctctaggtc 360

caccantcc atcttacacg tgtttccggt gtgggtaaac tggacattat attaagaatt 420

g 421

<210> 184

<211> 337

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (4)..(4)

<223> n=unknown

<220>

<221> misc_feature

<222> (308)..(334)

<223> n=unknown

<400> 184

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gttnngaaga gccattccaa gtaaatacaa atattctaaa atatacatct tccaagattc      60
agcacttctt acattcatca cagtaactgt ttccacagca gggaaacaca acagcatcag      120
tcataaatatc cttgcagatg agacacaaca attcatctgg gataggatca tcttcttctg      180
aggaagaaga tggctcctct ggtaagaagg gaggtttctc tttcttccca attgcatatg      240
cttctgcata tatagttggg attgcatatt ttccagtgtt ggtaagcatt gcacctttca      300
tattagntc tttcacttcc atcatgaanc tncnggg                                337
```

<210> 185

<211> 419

<212> DNA

<213> homo sapiens

<400> 185

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gttaaaaaca atggccagtc agggaggccc caagtatact ctctcacagc agccttgggc      60
acaaccagca aaggtcagtg accttgccgc aactgcatat aagacaataa aaacaaagct      120
gcctgtgaca ttgagaagta tgtccttgta cctatccaat aaagataccg agttcatctt      180
gtttaaacct gtgaggaata atattcagca agtcttccag aagttccacg ctctgttaaa      240
ggaagagttc agccctgaag acatccagat cattgcctgt ccatctatgg aacagctgag      300
ccttctgctg tcagtttcta aataagcagg ccagccgggc tgtgcacctt aaatgtctgt      360
ctgggaggag caggctgaga agtcttgcag tctgcaggac aaccgaggaa tcgtatgtg      419
```

<210> 186

<211> 490

<212> DNA

<213> homo sapiens

<400> 186

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tcacatttat taaaaacagc aatttctagc caaataatat aaagcatttt aaattatttg      60
```

aaagtatata cactctttgt ataagtgaac acttaaaact gtacagattt aaacaaataa	120
tcatttagca aacaagttgg gtcactatta cctactcagc actttgtaag gtggttgagt	180
gtttcagaaa taaaagatca aaagacaaga accaatgtca ttaaataatt ttataagaac	240
acactccgct ctgtaaatca aattaaatca gtcacgtact tactgtacaa taatcatgcc	300
ctcatttctt tggaaaggct attaaaaatc aaatgtacat ataatacaca aaactggata	360
ttttacagtt tatttcatta aacatgtatt taaaaaacag ttaagtaaat acaatcttcc	420
taattcattc atttcatggc aaagaatgaa tatgggcctt cttaccttct accttctcaa	480
aatagagagt	490

<210> 187

<211> 418

<212> DNA

<213> homo sapiens

<400> 187	
ggcggcggtg tctcaggcgg caatggaagg atccgagcct gtggcgcgcc atcaggggga	60
agaggcgctc tgttcttctt gggggactgg cagcacaaat aaaaatttgc ccattatgtc	120
aacagcatct gtggaaatcg atgatgcatt gtacagtcga cagaggtagc ttcttggaga	180
cacagcaatg cagaagatgg ccaagtccca tgttttctta agtgggatgg gtggcttgg	240
tttgaaatt gcaaagaatc ttgttcttgc agggattaag gcagttacaa ttcatgatac	300
agaaaaatgc caagcatggg atctaggaac caacttcttt ctcagtgaag atgatgttgt	360
taataagaga aacagggtg aagctgtact taaacatatt gcagaactaa atccatac	418

<210> 188

<211> 415

<212> DNA

<213> homo sapiens

<400> 188	
ctcagtacc tgccttcttg actggttcc gttcatcagt cctgtccctc ttcaagtaat	60
ctagaagaat gtggatactc ttaggcgtga atgtaaatgc cttaatatgg aaggctctgg	120
ttagaagcat gatacaagac atctactgga ttcatattta caaatatcct ggaatgttat	180
agcttcaaag tatattagaa aaaccccaaa gatggtataa tctttaagtg tgcacgttcg	240

tttattttctg catctttccct ccaaacttgc ctttgcattct taaatatttc actatgcaca 300
 ctcccattcc tcttgggttt catcttgtcg tttaagaaat gtactgaaat aatcattgga 360
 atatttgcatt tttgcacaat gactgggtatg gatagctctt gacaaataag ggaag 415

<210> 189

<211> 504

<212> DNA

<213> homo sapiens

<400> 189
 tattaataaac tgggttttagg tccaaataat gaagatgtag aaaaacaacc tacagtccca 60
 ttataacatt ttgaaattca ttataaaaa atttacagca gctgtaaagt ttcagtatcg 120
 taaggacaac gtgatcctac aaacagccaa aggatgtaga caagatgttt ttctgtcttc 180
 caaataacac aaactgaaaa gaaaagcctt tgcttttctt tggccacata aaactagtat 240
 ttccacacta ctggttaata accccaagaa acctttgctt ctcttagtca atttgctcat 300
 tatggctaca agactacagc tcaacatcac aagcccagaa gaaatgctgg taagacatca 360
 atctgagcat ttcccagagc ccaatcacia catttcagt ctttccttat ttgtcaagag 420
 ctatcatacc agtcattgtg caaaatgcaa atattccaat gattatttca gtacatttct 480
 taaacgacaa gatgaaaccc aaga 504

<210> 190

<211> 306

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (228) .. (290)

<223> n=unknown

<400> 190
 ggaactccct gctgaggctc tcagggaccc cagtctgcag gatgcactgg aggtcgacct 60

ggccgtctct	gtttcccaga	tctccatcga	agagaagggtg	aaggaattga	gccccgagga	120
agagaggagg	aagtgggagg	aaggccgtat	cgactacatg	gggaaggacg	cgtttgctcg	180
catccaggag	aagctggacc	ggttcctgca	gtaatccggc	agctggtnng	cgttgtgtgt	240
agttagacaa	tgtcctggtg	ggtggtcctg	ttgcgtggag	atctcctctn	gtcctttcaa	300
agggaa						306

<210> 191

<211> 484

<212> DNA

<213> homo sapiens

<400> 191

tccaaatgag	atgatacagg	ctagaatgca	cggcggaatt	ccagactgga	ctcactccat	60
aagccaactc	atcactgccc	gtgaacatga	attctgggtc	tcagagaagc	tgacattggt	120
tccctgaaca	ttcccgtggt	ctccttctga	aagccgatga	ccatccaacc	ctgactcacc	180
tgaaatatcc	tacgagcctc	gccctccgag	actgacgatt	attaaccacc	cacacggaaa	240
aagaaacagc	ccctccatca	cccacatctt	gtacacaaaa	aaatgccacc	actaatgcca	300
taaattcagg	caggttcctc	tatccaaagg	ctaaactgct	tcaggtgacc	taaaaagtgg	360
ccacgcctct	ccacgtaaac	acatccagct	gacacaggct	aggatcgagt	tctcccacgg	420
ccttctatc	ccgtctctaa	tttactctct	gcttttccct	ggaatgtgca	tgagaaataa	480
acct						484

<210> 192

<211> 342

<212> DNA

<213> homo sapiens

<400> 192

ccgcagccat	ggaggagatc	tcccatgggt	ctgcgcttag	tgcccgcgcg	gagtcacacg	60
cgccagggac	ctagaggagc	ctttggcatt	tgggggctgt	ggggaacatg	aagtgagcgc	120
gactcacggc	ctggagtgca	ggaaaggctt	ctcctgcaag	gcggtggctt	caaaaaccag	180
aagtctggta	gcaccacgtg	cggcgtctct	aaactcttgg	tcgtctctga	cttttaaaca	240
tctagggaaa	gttctaaaac	gtgtgtcctg	gcgtagtagt	tttggttggc	acttggtagg	300

gaggggaagaa tttgtaaagc actgtaactt ctatagttaa tc

342

<210> 193

<211> 479

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (5)..(5)

<223> n=unknown

<220>

<221> misc_feature

<222> (36)..(36)

<223> n=unknown

<220>

<221> misc_feature

<222> (460)..(460)

<223> n=unknown

<400> 193

aacancctca tgcactgtca tccccatttt acagtngagg aaaactgcaa agttcaacct 60

gagaccatcc gattccaaaa cgtttcaggg agctgcgtta aagcgagcac tgagtttgga 120

agcttcaagt tctaggtcga gccacgtact aagcttcaaa atgcatggga ggaggtttgt 180

ggggagtgt accgccggga tccaagctcc actggaagga ttaactatag aagttacagt 240

gctttacaaa ttcttccttc ctcaccaagt gccaaccaa actactacgc caggacacac 300

gttttagaac ttccctaga tgtttaaaag tcagagacga ccaagagttt agagacgccg 360

cacgtggtgc taccagactt ctggtttttg aagccaccgc cttgcaggag aagcctttcc 420

tgcactccag gccgtgagtc gcgctcactt catgttcccn acagcccca aatgccaaa 479

<210> 194
 <211> 418
 <212> DNA
 <213> homo sapiens

<400> 194
 cccaccttaa gaaattaaaa aataattctg tccagctctg tctgaactta gtacatgatc 60
 caggatgtga tgggatctta gggcttggct ggaaggtttc tccagtcagc catctagcag 120
 agctgcagat ctgggctggg ctgttggcta aagtgtcttt cacagacacc tcattcggct 180
 cttccttcag cttcttcact tatttcttac tcagtcacta ctcagctcct tgtccatgtg 240
 tccttgaagc catcctaggt cttattctga ttctgaattc ttcagtcacc cataagcttg 300
 tccttaccgg gagtcagtgg gtgtgtgttc ccaggtggac ttaaccattc ttctccttta 360
 tgatcctttc ccttgggtgg acaagtgtga tttggttgta aggccatttt tcaagttg 418

<210> 195
 <211> 179
 <212> DNA
 <213> homo sapiens

<400> 195
 aaataactaga agcatcacct cacaatcctt gtgaccaagg agagagactt gaaacctaag 60
 gatctctatc tttcctcatg gttgggttct ctttagagat gggtttgcag aaaggacatc 120
 ataaatgttc attctgtccc cagtgtagta aattcctagc acaaagaaca gatggaaag 179

<210> 196
 <211> 357
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (150)..(163)

<223> n=unknown

<400> 196

```
ccttgaaaaa atttccaact tctaccttta agatcagcct gacttatcaa acgctagaga      60
aaaactgaat ctacccttgg gcagatgact tgggattgga ttctatacag cagtcttgct      120
caatcttccc agtttccagt tttatgatan cnccaattgg ttnttacaag ctagaagaca      180
atgaatgtat aagttctatg gaacagtgag ataaatctaa gcttcttgtc tttgtattta      240
gaaacattga ttctatggat gatcatttgt atcatgttga cccttgact tgtactgaag      300
gtgattttaa atttaagtat gtagtgtttg aatttcttcc atccatgtcg ttttaaat      357
```

<210> 197

<211> 399

<212> DNA

<213> homo sapiens

<400> 197

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ggggccgcgg cggcgcgggg gctccggggc gaggcgcgt ctggctcttg ctgattgaat      60
tcctttggtg cagtttagca tgttctctg tgttctgcat ctctgtagt gtaatgttca      120
agctcagaaa tgccttatgt ggatcgtcag aatcgcatth gtggttttct agacattgaa      180
gaaaatgaaa acagtgggaa atttcttcga aggtacttca tactggatac cagagaagat      240
agtttcgtgt ggtacatgga taatccacag aacctacctt ctggatcatc acgtgttgga      300
gccattaagc ttacctacat ttcaaagggt agcgatgcta ctaagctaag gcccaaaggc      360
ggagttctgt tttgttatga atgcaggaat gaggaagta      399
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<210> 198

<211> 469

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (172)..(466)

<223> n=unknown

<400> 198
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 gcaggcaggc tccgtgcgct tctgcctcac acgtcactga caggaaggct cncatcnncn 180
 aagtcnanta ggtcacnadc ttntnctga gggncatttt tactttgagg tcttaacnga 240
 gcntgttcag tcactttgga agctgggttct cttggagaga nagtntggac cttgaagtgc 300
 cctggcttga ccttggcaag agactcgtaa aatcctcgct tctccatggg aaagggttag 360
 accaaagagt tgctgcgana ggctgtggaa tgtgaggtgg cggcggctgc gttggttagg 420
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<210> 199

<211> 288

<212> DNA

<213> homo sapiens

<400> 199
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 gttcctagat gagtcccttc tccagctcag gctcggccta agcctcaggg ttccttactt 120
 ggtgggcacc acctgctccc tccccgcct ttgttctct ttttctctg ctggctctc 180
 cgggggttggg tgtgttcaga ggcagagaca ggctcaaggt ctttggcttt taggttctgt 240
 tgatgggtga gttccagata tagctttctt ttgtaggata tttcattt 288

<210> 200

<211> 288

<212> DNA

<213> homo sapiens

<400> 200
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 aagccaaaga ccttgagcct gtctctgcct ctgaacacac ccaaccccgaggaggccagc 120
 agaggaaaaa gaggaacaaa ggcggggaag ggagcaggtg gtgcccacca agtaaggaac 180
 cctgaggctt aggccgagcc tgagctggag aagggaactca tctaggaact gggatatgaga 240

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288

<210> 201

<211> 428

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (215)..(286)

<223> n=unknown

<400> 201

tcagattcag attcaagcag actaacggat agcagtattt tccgttcaag atgatggaca 60

tcttatcttt ataatgatt ataccggtcc gtctgggaga acaagatgct aaatgttaca 120

tattccttcc ttctttcatt ggaagtcat tggaaatttt atacacgtac catgcataca 180

gagaagttcg tgcatacaaa agattcaact cgatnnnnnn nnnnnnnnnn nnnnnnnnnn 240

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnggct gcttgtgtct 300

gttcagtcga ctgactcaga attttgtgat ggcatggaaa gcttggcttg ttgtctgccg 360

gcagtgagta ttgatgattt tgggaacacg tttccattca cagtgccttt tcagttgtag 420

gtagtttt 428

<210> 202

<211> 464

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (14)..(463)

<223> n=unknown

<400> 202
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gccaanagggc atnngatcct gacgtaggna agccacagga ccnagacctg gaggtaaagg 120
ggnaggccac cttngtttca angnaccaca aagaatntag tctggtggga agagaggaag 180
gcangcngca cctgnaagac nngtcccng ctgcagtana ggccatcttc tgctatgcan 240
tntgctcacc anaaggetca actctaagga gcnnacccca gtcnctagca gantgaacan 300
gaagcatgan actnctccca gtnaaaacta ncctacaact gananggcac tgtgaatnga 360
aacgnnttcc cnaantcatc antactcact gccggcanac ancaagccaa nctttccatn 420
ccatcacaaa attcngagtc agtgantgga ncngacnaa gcng 464

<210> 203

<211> 422

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (258)..(284)

<223> n=unknown

<400> 203
tttttttttaa accctacaga actttgcagc acttgatcac cttttgattt ttttgtggga 60
atgttctaag cgtggtgtac ttctgacaaa ctgggggcac cctggggatg aatttagagt 120
agtgcgatgg gatggcaaat atccggaaag agtttctgag gagcagtttt tagtttgaag 180
aaattcaaga aatttccctt tactttttta ggaagagggg gtctgtctag catgagttag 240
cttatgttgc tgcgtccnnn nnnnnnnnnn nnnnnnnnnn nnnncggtct tttgagaaag 300
ctagaaaata aattcttagt caaagttgcc catcctgttt gccgcacttt ataagttatt 360
gttgctgaat gattgggagc tgtccatcag cggcagagaa cttgcagttt acttaagaaa 420
tt 464

<210> 204

<211> 349

<212> DNA

<213> homo sapiens

<400> 204

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tcaaagttgc ccacccgtgt tgccgcactt tataagttat tggtgctgaa tgattgggag      60
ctgtccatca ggggcagaga atttgcagtt tacttaagaa attgcgtgtg tgacaaaagc      120
agctgccagg agtgtggtgg tccgcgtgaa tagagggaga gaaggcaatt agggggctgt      180
gtggttgggg ctttttactt gtcaaagtgg aggctcattg cttttgttac caccatgtaa      240
agggaatggc agggttttgt tttggtatta agggccttaa agattgctgc ctgacactta      300
cacaggaagg ccagataagt ccagaaagag agggcacgga gcagtattt      349
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<210> 205

<211> 116

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (99)..(105)

<223> n=unknown

<400> 205

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gatctgagcc ttgacgcagg ccaagtggaa aaatacttnc cngcncacct cccctg      116
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<210> 206

<211> 449

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (11)..(21)

<223> n=unknown

<220>

<221> misc_feature

<222> (447)..(447)

<223> n=unknown

<400> 206

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acaaggccca nngaaactag nccaggaatt aattgtcttt ggtcagtttt aaatgaacaa      60
cttgctgggt cattcctaga atagactgaa cgtcgggttac acataaagac aaaaggcttg      120
acctcaggat aagtcgaagg ttaagaaaag aaatcattcc atgaagcaaa gaaaaaaaaa      180
tgcccgttgt caactaactg atcagtacgg ctttcaataa tggatgatgaa caagtaggta      240
aacaccactt ccccttgtag aattgggttat attgaagact actaactagg ttactacatt      300
tccccacac tcaactgtaca gttagggtatt tggtttttaca ttgatctatc tactagggtgc      360
aaagatttgg tgagtggcat tggctaaaat ttaattgtag cttttttaaa aattacaatt      420
tcacatttta acagttactt tccagcattt                                     449
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<210> 207

<211> 351

<212> DNA

<213> homo sapiens

<400> 207

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cagggccttg gccttcttat taatggacct gagggatgtg ggggaaaagc agcacatctg      60
cccctgggtg ctaaggtgca cacgtcccat gggagctgaa ggcagggtccc ctagtgtctc      120
cctgagcctg catgggagct gctgggttctt agaaagcctg tgcattttcc aagggtcccag      180
acaccagcac tccctggggg gccaccgtga tgtgggagtt accgaggggt ggagctgctc      240
ctctttctct tgccatctcc atcctccaag tgctgcacgc tggcatccag gttaagctgc      300
ctctcatacg gggacaggac agagctgtgg ggtgagaaca gcgggtgggc c                                     351
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<210> 208

<211> 412

<212> DNA

<213> homo sapiens

<400> 208

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gttttgggag gacaacaata gcaaacctac agactgacaa tgacctcctt tggctgcaca      60
ccatctttgc tgtcatttac ctctctttca ctgtggggtt catgcggcac cacactcagt    120
ccattaagta caaagaggag aacctggtga ggcggaacct gttcatcaca ggactcccca    180
gagatgccag gaaggagact gtggagagcc acttccggga cgcgtatccc acgtgtgagg    240
tggttgatgt gcagctgtgc tacaacgtgg gccaaactga tctacctgtg caaggagaaa    300
aagaagactg agaagagcct gacctattac acaaacctgc aggtgaagac aggccagcgg    360
gacctcatc aacccaagc cctgtgggcc agttttgctg ctgtgaagtg ct      412
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<210> 209

<211> 477

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (469)..(469)

<223> n=unknown

<400> 209

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ccctccttgc tggcagaggc acgggaggcc tgctggggat gaggccactg gccagggcta    120
tgctgcacca gaccaatggc accgccccca ccctcccag cgcaggggca gcttggagca    180
gaggcagcac tggccaccac tgcgggggca agtcagcgtc aagagagtcc ctgagtgaga    240
aggcccagat aagcccaggc ccccaggcc agcggacagg cacaggcagg gcctacagag    300
gtgccaaggc ccaggccag ttgtgctagg agcctggacc tgctcttcca ccccccatc    360
ccgccccctac tgcacaggct tgtgccttgg tgccccctgg aggcagcagg gaggaggctt    420
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ctcaggcaga agtcttaagt tgcattccat tccccagagt cccaggang gagaaga 477

<210> 210

<211> 433

<212> DNA

<213> homo sapiens

<400> 210

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 cggccggagg gtcccggccg gtggggccaa ctcagaggga gaggaaggga ctagagacac 120
 gaagaacgca aaccatcaaa tttagaagaa aaagcccttt gactttttcc ccctctccct 180
 ccccaatggc tgtgtagcaa acatccctgg cgataccttg gaaaggacga agttgggtctg 240
 cagtcgcaat ttcgtgggtt gagttcacag ttgtgagtg ggggctcgga gatggagccg 300
 tggctcctta ggtggaaaac gaaacgggtg ctctgggatt tcaccgtaac aaccctcgca 360
 ttgaccttcc tcttccaagc tagagaggtc agaggactgc tccagttgat gtataaaagc 420
 actagatttt cac 433

<210> 211

<211> 424

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (254)..(270)

<223> n=unknown

<400> 211

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 ctccggaggc tgctgaagcc cagcaaagcc ggagtcagag aacaatgtcc gcctgagggc 120
 agggctgggc tgggctggcc ttctggccct atctgctccg tgcccaaccc agcgccccgc 180
 acagtcggag ctttgtaaata acgagggtgac tgtctgccta caaactttgt aaacatcact 240
 tgaaatggcc gcanggcatt gcgacatggn cataccacta tttgtttgct attgaatttg 300

tacttcctg ccttactttt gctattgcaa accatgctgt cactaaggtc ttcatgcaca	360
cagttgtgtc ttggtcagat gatatgtttc taccaatttt aattgtgttt cttccacct	420
ggac	424

<210> 212

<211> 601

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (11)..(38)

<223> n=unknown

<220>

<221> misc_feature

<222> (398)..(398)

<223> n=unknown

<400> 212

gctcagccta ngggaataat tgccaacaaa cacttttngg aagcctggga ccatggctct	60
gccaggaatc tgtgacatct ccagggcatc atttgagtcc tgccttctca aagtacttgt	120
gacaggcaga cgtgattgca gccacgaaca cgatgaactc actgaagtcc acctgggcat	180
ctccattggc gtccaggtcc ttgagcaatt tatccacggc atccttgtct tttccactct	240
agaggagaga gaggctcaag gtcagcagtg aggggtgctg tgcagggcct cagcctccac	300
caagcactgc tgctgggcag gagcagggca cccacatctg cgtcaccttt gctgtcattc	360
aggctcaggg ccagggccag ctgtgcatag cagacacntg gcattcctgg ccttaagaac	420
ttgtgagctg ccttcagcta tctggcatga catgaactaa cttgtaatgt ttttagagcg	480
aattggaatt gtgctctgcg agagggagtt tcattttgag tttttgccgg gggttgtctt	540
tggatttgta aagtgcttta cagtgatggt tgttctcagg aaatgcatcc agtctttgct	600
c	601

<210> 213

<211> 400

<212> DNA

<213> homo sapiens

<400> 213

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cttctccaca agaactaaaa gacatgaaac atagcacttt catgagctag acagaaaaat 60
aggccataag attctcatgg ccagagccag atttcaacag tagctcctgg cactgtggac 120
acacactgga aatacagctg aggccagaga tgggtgtccaa cctcctgagg ctctcctttc 180
cttcccaacc aggacaggct gagtctcttc tgctgttctt ggggataccc aagataccca 240
tcagctaaaa ggcccccaag ctatcactga caacatcttt aaaccagca acaggcctgg 300
gtccccctg cactgtctgac ctctcgcgca ggctgtgcgg ggagaccttt gtggtcggag 360
cacaccaagc ctccagcgtc ctccccagtg tttagcatgg 400
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<210> 214

<211> 435

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (38)..(77)

<223> n=unknown

<400> 214

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nnnnnnnnnn nnnnnntgt ttgtttttaa gaacaggtaa ccccttttaa atttttctcc 120
tttttttaat aactggggat ttggatggac aaagaaaaga atggcatagg gacggcattt 180
cagcctgggg gagcagcaga ccagtagct cagagataga aaagccactg gcatttgcag 240
gagtgcagaa ggccaggcct gctcagagca gaagggtcac tgggaagggt agtgtgtgac 300
atggtcagag aagtcacaga ggatctagga ataatcccag cagccaggcc tctgtacca 360
ggggttaata agtatttgag gcacatttcc cccattggct ttcatcccca ttgcatectt 420
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agttcagctc agcag

435

<210> 215

<211> 296

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (48)..(48)

<223> n=unknown

<400> 215

ggaaaaggcc cccttaacct tcctctctcag gccactcag caaatgtngc cactttgtgg 60
ccactttgtg taaggcattc cagagatctg gtgaggcacc tatctacaaa tatttataca 120
cacacattca tatatggttt cagtcacaaa atgggggtcat tctctccctt gacctatcat 180
ttagggcatt ggaacatggc tgcattgtggc tctgtttgtg aggggtccagg ggatggacag 240
ggaggctctg cattattttg cttttaccaa cattgcagca tgaacgtttt tttaac 296

<210> 216

<211> 515

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (507)..(507)

<223> n=unknown

<400> 216

gctaggatta caggtgtgaa ccactgtacc cagcctcttg tggccattct gactggaagc 60
tgaagtctag ttttccagtg atagaaaact ggaacaaat ttcttcttta ccagctgagt 120

ggtaacacag tcaaccaggt tgcctctggc aacaaagagt tcttggttat gatggactga 180
 aactggcaga gacctcgctg ctgggtgaga ctagccaggg agcttagggg taaggagggc 240
 accccctgtc caacagggag attcttaggt caggagcac ctggctggct tcctcactca 300
 ccgccgaagt gggcattgga tttgacctat tacgaacctg gagcaggacc agggatgccc 360
 tggttgctct gcagaatgtg gctcagaggt aagtgatctg ttcgggatac ccagtactg 420
 tgctcagagc catgcctccc tgggcagccg gaggaacatg gatgtgctct ggaatgtctt 480
 taacaccttt ttttgtagt tccagancct ctgag 515

<210> 217

<211> 439

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (123)..(123)

<223> n=unknown

<220>

<221> misc_feature

<222> (387)..(387)

<223> n=unknown

<400> 217

atgtgctttt ggaaatagtg ttttcctcaa gtatctgctt ttgtgcagca cttgggttta 60
 aacaaacaac aaatttcgat accaacttct tgggcttcaa gctattgagc acttatagcc 120
 acnactatca agtatagtta tgatacagac agtccaaatt tatggaaaat attacaaaga 180
 caaatgcctt gaaaagatga cacagtgcag ggaaaactac agctattaag ctggtataaa 240
 aacttagtca aaatgtttta gtccattatg gctctgccta aagcttcaaa ggaagaaaat 300
 ttaagacact tctcatccaa ggcacttaaa agagttgcaa taaagtactt ctttgaattt 360
 agtttgagcc caacagtatt ttttatncct ttttcacatt ctgactcaca ctgaaacagt 420
 ccttgaaggc agctattaa 439

<210> 218
 <211> 393
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (378)..(378)
 <223> n=unknown

<400> 218
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 ttgctgcaga ccatttgacc agaacgtgtg cagctcagcc agccacagaa ctggaatttt 120
 tcaggagcag ggggagcatg gagtttggac ttgctgagc aactgaagtg gagcgcagag 180
 cttgctcgct taggagagag catcatggat ggcaaacaag ggggcatgga tgggagcaag 240
 cccgcggggc caagggactt tcctggcatc aggcttcttt caaaccatt gatgggcgat 300
 gctgtgtctg attggtctcc tatgcatgaa gctgcaatcc acggacatca gctgtctctg 360
 aggaacctca tcagccangg gtgggctgtg aac 393

<210> 219
 <211> 540
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (485)..(485)
 <223> n=unknown

<400> 219
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agttaatgtc agaaaacctg tatttgaatt tgactcctct atccttactc tggaaaattg 120
gacatcttga cccagtggct gtgagggtta aattagatga tgcagaaagt gcttggcatg 180
cagtagatat gcaaaacaat aacttatgac actctccatg cagggaaaaa agtcttcatg 240
ccttctaact aataatacaa acgtatgcag tgtctttcaa ccctggcttg agtttaacaa 300
atacaaattg aatagaaaaa attagtcaaa ctccataaac aagtttataa caaatacaaa 360
tctaactgaa aaaactagtc aaactctata aatccaactt gattttaaaa ttctagtggc 420
tacaacactc aataatgttt tcacatcggt tgtgaatcca ttccctagat gcatttaaag 480
atgtnggaga aactgtttca gatcctccgg ggaggacgag ttgggtatct tatgatgctg 540

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<210> 220

<211> 475

<212> DNA

<213> homo sapiens

<400> 220

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gagaaattat cattcccttc ctgcaccccc tgtcagttcc cattttgaca gcattttggt 60
attgtcattg atgacattat taatatagaa gcaggaaaaa agtcaaata gatttctttc 120
atcctctagt ctggtctgaa agttcaaata ccttcttttg ccaacggtag tcaggtgatg 180
ccaccaagca aagagacccc tgagcagccc tgagacttcc ggatatttcc tgcacctgcg 240
gtattggaga agatgctgtg aatatccaga taggcttctc tccaaagagt cagagctgaa 300
aataccaggg aagtggtttt tggatccttc ctgggggcatc ctgccaggga catggcctgg 360
ctcaagctct agcaggggaa gtctggtatc aagtctcacc tggcaggaat tgagcccaga 420
atggaatatg ctacaggcag agcagccctc ccctctcttc ctgagccgac ctgag 475

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<210> 221

<211> 460

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (237)..(237)

<223> n=unknown

<400> 221

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tggtatctag gcaaaagctg tgcctcactt ctgcgggttg aaccctttgt atgtgcccag      120
tgccgccaca gatttcaccc ctactggaa gcaagaaaag aatggtaaga ttctatgtga      180
gcagtgtatg acctccaacc agaaaaaggc tctaaaagct gaacacacca accggcngaa      240
aaatgcattt gtgaaagccc tacagcagga acaggtaaga attctgactg ctactggcc      300
acctgtccca gtttgTTTT tccaaagggt cgcgccttct agtttgcagg agtggttcat      360
gtgatcccta cagtccacag gttccctttt tgtctcetta tcattgtgtc taattccatt      420
tgagcgagta ttctgattaa ggaacatggt aaaatatatg      460
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<210> 222

<211> 336

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (3) ..(328)

<223> n=unknown

<400> 222

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canagcataa atngngTTTT nnttttnact cccgcctacc cgatcttcca aaaagtccat      60
natgctactc anacaaggga ntctgatggg tggngtgggg aataggnta aaaggatctg      120
agttnccca cacatttttc cttctcgaag atattctcat cctataacng ctacatgagt      180
tgtncacata ctctagaacc antactcttc actgggctac ttcataattc actctttctt      240
tcgtcatttc ntatcaaaaa cgcactgcaa ataactgttt caaaganatt tatagcacna      300
atatnaattc ctccancaa natctatnat ttgttt      336
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<210> 223

<211> 457

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (87)..(87)

<223> n=unknown

<220>

<221> misc_feature

<222> (105)..(105)

<223> n=unknown

<220>

<221> misc_feature

<222> (386)..(386)

<223> n=unknown

<400> 223

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gaaaagttta tttctctcca ctcccaatga caccaagaca ttgtgcatgg tgттаatggt      60
aattgcattc cacagaaaac atgcttncat tgagttcaag ggganaaaat acattcatta      120
tgttacagtt tacataagga agaaaggtaa gattcccaac cccaccttt cgttccccac      180
cactaccaca gacaaaacat ggtttttgctt ttaaattctca agacataaca taggggtctaa      240
gcctgtctac tgctacgatg taaaactaac atcatttttc ccttttgctt cttacagatt      300
tttgcatata tgaatgaaac ctcttcccga aaggaaaaat gggactccaa gctcttaggt      360
ttttatcaat taattcaata attgancctt gggctcttttg gccatcctta ggccctccct      420
gttctgagac taatgcgttc agtcctctgt tgtcgga                                457
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<210> 224

<211> 304

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (293)..(300)

<223> n=unknown

<400> 224

gatgagttta cacagtaact atgattaaac agtgcaaatt cactgaaata ttttgatgct 60

gagtttacat ttacatgcc aacatttaga aatatattaa gatatgactc actgctacat 120

ggtttcccat ataagatgag tcaaaccatg ttccctaaat aaaatataga cagatgaatt 180

ttggtacaac acagtcacat tataaaatct attttactca tggccccaat atcaacttta 240

aaagggttcc agtatatctg aagaatgaac cagatttttc agtttttaag ccnaccnngn 300

ggct 304

<210> 225

<211> 480

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (48)..(48)

<223> n=unknown

<220>

<221> misc_feature

<222> (261)..(261)

<223> n=unknown

<220>

<221> misc_feature

<222> (420)..(420)

<223> n=unknown

<400> 225

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ctgggataag caaagtttaa acatctttgt gtttgtttat agtaagantt ctctgtatat    60
ttaaagtaaa atgtcacttt gtaagacagt ggatagtaag cagtattttc atgtttgacc    120
actgaaaatt ttttttcact agacatcact gtttgtgata cccaagtttg ggaaatgtac    180
taaacttaaa tacatgaaga tactttgaag ataaaacact gtataaatat ataattagag    240
aaaagatcca gttgctgaaa nttatttctt cttaagtggg aacaatttat agagttaata    300
aagaataatt ttatagtgat tgtaacaaga cagtgccatg ttaatttaac tagtacagta    360
ccgtaattta aaactgtggt acttcttaac atgttccatg ttaagatgcc ccaaaaatgn    420
taatggattc ttccatcctc tatatactat ttctaagtcc ttgtgtggtg tattctatac    480
```

<210> 226

<211> 442

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (56)..(392)

<223> n=unknown

<400> 226

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tctttcaatc aaagtaatta aggtattaca tctcctctgg agctcctaaa ttatananaa    60
acatggtana cgcactttcc atccanaagt ttcattgattt caanttttaa acaagggtatg    120
ttttaatagg ataatatata aaaccactaa tacacccttg atttaaaaaa aaaacaactg    180
attttcatat acaattcatg ctatgaagat taaaggcaag atntttgtaa ataattgttt    240
tacnccaatc tttaaagcca aactactgtg tattcttcaa aaattcttcc ttcacttagg    300
nnttaaagca ataaaaatga acatatgcaa tactgctact tagtgngtat gtctgagnac    360
tactgtgcta cttatatcca aaacttaaaa angattaata gtgcacatat gtgagggtca    420
```

aaaacaacaa gaacttttac ag

442

<210> 227

<211> 417

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (48)..(48)

<223> n=unknown

<400> 227

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atctaattcc attaggggtc acgtcttttc tttctgggac actatccnac tatatccata 60
tctatagatt tcaatataga tgattgtgcc atcttctgta gccctccgc tctactcatt 120
ccttccacca tctgcagaga tttgaagttt ggggctatgc atgaaacca aactaaatt 180
ttgcaagtca agtaaccaa aaagggggag gcattttgaa gatagaacct ctattttaaa 240
aagagaagtt caactcataa acgtgattga taggtggctg atttatttag gttttgtcaa 300
gctatctatc aaagtaatgg tacagttacc catctactca aatatctgat ttatctcacc 360
atccaattat ctaccacact gtcttcctct ctagcaatct atttactggt tatcaat 417
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<210> 228

<211> 467

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (3)..(3)

<223> n=unknown

<400> 228

```
ganaaggttt tccaactgag gcagggcagg tctgcgattg atgctgcatt ctcacacct 60
```

ctgtggatca gtcctgcag cacacctgtg cggctctcaa tgcctttatt ttgaatccca	120
ggcaactttg ctggatgagt ccttctcgtc ccaggagaca agacagcaaa ggtggctcag	180
ctcttgtttg tatgctgggt ctgctttgaa cctgaagagc tggatgaagt cttccccaaa	240
gccattggag aagcagctgc atcagaggaa actgtgtcac tgacactttc tcccttctgt	300
ttgcagtgtt gtgttaatca agtgcttgaa aattaagtca gttgctcaag tgcctcagc	360
ttagaagagc ttctgaaac aaataccaga gttgtcaata caccgcat gtaattggcc	420
tccatcagct ttttactgga tagttttcaa acagattaaa ccagaac	467

<210> 229

<211> 532

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (48)..(48)

<223> n=unknown

<400> 229	
aaaatacgta aatacataaa atagttacaa ctgtcaatct tctgggtntt ttttaaccac	60
aataaagaca aattgaacta gttactagac aatgacaact tgcagctttt cgaagccaag	120
ccaaattgct tcaaagtctt ggaagcattg cgagaacata gctgtttaag taggatgggt	180
aagagtacaa gatctgaatt cagacttctt agattcacct ccaagccaat tttctccctt	240
ggaccatagg gaagtcatta catctttcta aaatgcagtt tctcctgtg taaaatttga	300
agcgggtgcct acctcctacg gtctttgtaa ggatcgaaca tctaacaggg cgtctgctaa	360
tctaataata tgccattcaa taaaagttga ccaggagcg ttattactag tttaaaatgt	420
gaccaatagt cgcacgcag gttttgaaga gtgggaagag ggcattttgg catggaggcc	480
attgcaggcg tcagagacgc gggatcgaac ccctgtgctg tcaccaggtg cg	532

<210> 230

<211> 515

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (47)..(47)

<223> n=unknown

<400> 230

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gctctacaag atggcggcgg tcggggccga ggcgcgagga gcttgngtg tgccttgctt 60
agtttcactt gatactcttc aggaattatg tagaaaagaa aagctcacat gttaaactgat 120
tggaatcacc aaaaggaatc taaacaatta tgaggtggaa tacttggttg actacaaggt 180
agtaaaggat atggaatatt atcttgtaaa atggaaagga tggccagatt ctacaaatac 240
ttgggaacct ttgcaaaatc tgaagtgcc gttactgctt cagcaattct ctaatgacaa 300
gcataattat ttatctcagg taaagaaagg caaagcaata actccaaaag acaataacaa 360
aactttgaaa cctgccattg ctgagtacat tgtgaagaag gctaaacaaa ggatagctct 420
gcagagatgg caagatgaac tcaacagaag aaagaatcat aaaggaatga tatttggtga 480
aaatactggt gatttttagag ggcccacctt cagac 515
```

<210> 231

<211> 388

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (10)..(382)

<223> n=unknown

<400> 231

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tgccaatgtn tnaatngnna agnagaaaac agtataaaat tcagtatcan cnatttgtct 60
caaatacaag tacantgagt attaaacagg natgacaata gagtagcaaa aacagaactg 120
```

tagatttgcc caaattaant gtttcnccga atttnaggtg tatggcaant tgaatcttgg	180
atctctcagc agttgttaat tacattatca gctgaacgct ttcaaact acgggaggca	240
tttctctggt canntagact taagnacaca tatactaagc ngtaaanagg ctgccttcca	300
ttagtttggg ctctaagcac tananatatg tcgncttcat atnagtctat gagacncagt	360
gacncccttt tcagaggnat cngtaata	388

<210> 232

<211> 510

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (49)..(49)

<223> n=unknown

<400> 232

accaggtgcc tttagcgggt actaagataa ctgacatcag ttgtttctnt gaaataagtg	60
ttgctgtggg aataatttta atgttcaagg tgatatcatg ggggagtttt gtcttttaaa	120
acattagaag catttttaaat attaagaatc aaatatttat agatcaaaac ttgtgtttta	180
agtattatac gggacctgtt tacttatagt aaatgtgaat gtacacatga gttgttgctg	240
aagctgacaa gcatattaca tacatgcatt ttccctgtgc cctcatagtt gcagttagag	300
ttccagtacc tgtaggctca cctgggaggc agattagacc caaaggtaga tgtttttccc	360
ctttccatga agcatgtcag tgggagttgc ttcccttgat ttccctagta ctaaatttta	420
aggcttttgt aaaaaccaaa ccaaaactag gagcttggaa cagttaaaaa tcaacactgc	480
taccatccaa ttcacaaat atttacctag	510

<210> 233

<211> 492

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (169)..(481)

<223> n=unknown

<400> 233

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taaatattac agtgactatt acaagcattt ttctataaac aaagggtgtag ttacagatt      60
tgtgcaaagt gggaaaatat tttcatcagt agtctttctt ccatggtggt ggattcaccc    120
ctgaatatga tctgaactct ttcagagagg cagtccttca tctaaatgnc agttggtggc    180
aaaatggtat antcgaatct ggattattct gatacagtgt cactttagaa agtagcttag    240
tttcatttct gattgatccc ctttggttaga ntnagaaatt tnttgaanaa caatcttntg    300
tatntaatga cttttataat annaaaaacc ctgtcctgtg tttctcattg gcattaacct    360
cngtctacac cctctaattc tctaattatg gcaccagtgg gtatagaaag tgaattatgg    420
ttatttggtc catgcagcaa attaattgga gaanctggac cgcaaattatt ctgtgaagaa    480
ntacaaggtc tt                                                              492
```

<210> 234

<211> 537

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (160)..(160)

<223> n=unknown

<220>

<221> misc_feature

<222> (484)..(484)

<223> n=unknown

<400> 234

gtttgaactc ttaaaaaaga gttcctcaaa ctctttttta agaataata gtgaaatgtc	60
ttaaataata ttatctaaat aatacctaaa gaatgcaa gacttgcaat gctgaatagt	120
cagacacagg atgttccatg ctaagggtag actcatattn tccactttat aaaatgtggt	180
ttcagaaaac aaatagatgt gtttcttcct taataattag tgtttcagga ccaaagttga	240
ctaaatatgg aagtttaaga taaaaccggt tttcttaggg aatctttctc agtccttagt	300
aattctgtag aattgatgat agagtggcaa cttcaatata ctcagtattc ttttctgttt	360
gaagtctgtt ttgccattgg aaaaaactta ttgttggttg aatttgggta tatgtatcac	420
agatgggtta ctttattttt attttggtta aacaaatact ttccgggtccc aaacactgag	480
acangtttca tgtcctaaac actttataaa tattagaata tttaaattccc cttaact	537

<210> 235

<211> 475

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (23)..(453)

<223> n=unknown

<400> 235

ggctacagac gaaaaaatatc cantatanac anacattact tagataccag tggcatctta	60
aagcagcaca cccanntctc aaaatgcaaa aggggnnaat tttccactcc cacgatncca	120
ngcnnaactc cctngtaaag cacttgctag gtaaaagata gtgacattgc ctctgttact	180
gtggaanttg gagaggaggt gtgngtgtga agcacatcag taattctctc tcttcatttt	240
ttcatcctct ttttttcccc tcaatttatc tcttcttttc cacaatgtct ctcctttctc	300
catangecca cttegagctg ctctcncatc cccaattcca acaanaaaga cagctttgnc	360
ctttaattct gttgtttaan atcaatctcn aaattttana caacanacat tcntanacac	420
tactggntca tatttttcana agaatatnch annggcacag aggggggttga aatgg	475

<210> 236

<211> 546

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (475) .. (475)

<223> n=unknown

<400> 236

```
acgtcatgca aattgtcatc aaggctgtaa atttcacaag ggcccaggaa ttgaatcatc 60
gctagtttca ggaattcctt aaaagtatgg atgctgactc tagcaagtca ttcacttttt 120
agaagtaaga tggttaagtc aaggcaaaat gtaaagattt tatgctttgt gatgtgaaat 180
caagctgttt atggtatcaa acaaaattgg tgccagaact tgacaatgaa aactggctta 240
cagatttagc attttttagtg ggtttgacgg cccatttaag tgagttaaac ctgtgtcttc 300
aagttgaaaa ccaacttaac aatacaatgt ttcaaaccat aacagcattc catatgaaac 360
tgaaattatg gcaagctcaa attaaggcaa acaattttat gcatttcgac atgttggcta 420
aacatgggcc tgtgaacagc caaaaatacg cagccttgct tctcaatttg atacnggatt 480
tgaaaacagg tatttcaaga tttctgaaaa atctcaatat tttggtatat ttgcaactcc 540
ttttcg 546
```

<210> 237

<211> 333

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (127) .. (127)

<223> n=unknown

<220>

<221> misc_feature

<222> (301)..(333)

<223> n=unknown

<400> 237

```
acataaaact agtggggtac ttgacattgt ttttgagaaa ctaatccatc agtatctggc      60
ttgatggaag tagttgcaat tctcagttag ttctcaaggt gtcctcaga tatttttggt      120
ctaattntac tcttcgtgtt cttcatcctt gaaaatagta gtcacaaaat gtaagtgtctg      180
ccaaaaagca atgacatgaa caagggtgtga ttgtgaagca agggatattt gtcattggga      240
agacaggtct taaaaagtc cagtaaagag gcaaaatcaa atttttctat aagttgaaca      300
ncagattgca gctncaggca tncattnaa aan                                     333
```

<210> 238

<211> 557

<212> DNA

<213> homo sapiens

<400> 238

```
gggctggggt tgagctctag atgaggggact ttctgctcc tgcaagggtg agcactgtat      60
acacagacaa ggagggtgca gtagagttag tcccttgga ggaagtagta ccatcagaac      120
ctactattat tatgacataa attctattta catacattga gagaatacta caatcaaac      180
tttttctctg gatgacttta agagggttga gccacagcac ctgaagtggc aaagatccat      240
ggctcttgta ggggtattaga gaactcttcc agtcacctct gaaagcactc tagatcttgc      300
agctgagtgg atgaagtgta acaaactctgt tgcacgctga gaggagtcag aattagcatt      360
tttcatgaaa gttccccacg tctctactaa gaatgaggaa gaaaagacta agactaggta      420
attaccacag aggcttgaaa tggtacatca ccagagccaa gtctctctcc ttcagatcag      480
ttactggctg ctacacaggg acacccccac cttttcaggg catcccatgc actccacttt      540
ctcaggatct aaggaat                                                    557
```

<210> 239

<211> 457

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (297)..(444)

<223> n=unknown

<400> 239
tagaaatgaa tgtacaatgt atgtctgatt cacaccaggg gaagtggcac agtgcccttt 60
ctgggatccc tacaaagtca aattccttag atcctgagaa gtggagtgca tgggatgccc 120
tgaaaagggtg ggggtgtccc tgtgtagcag ccagtaactg atctgaaggg agaggacttg 180
gctctggtga tgtaacattt caagcctctg tgtaattacc tagtcttagt cttttcttcc 240
tcattcttag tagagacgtg gggaactttc atgaaaaatg ctaattctga cgccgcncag 300
cgtgcaacag anttggttac acntcannca cgnagcanca agantnngag tncnttnaga 360
ggnnacnnga agagttcnng nagncccnnc aaagaccann gatngttnc cactnaggng 420
cnnnggcnc aaccnnntna agcnaacc ca ggaaaaa 457

<210> 240

<211> 302

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (104)..(104)

<223> n=unknown

<400> 240
accgctgctt gtcactcact tcatggtatt ttcagagtct cagcctcctt gcaaggattt 60
ctcaaagcat ttaagaatca tataatacag accagttatt ggcntttaag ttttcttctt 120
taataaaata actcagtggc cctaggagaa atctgagaaa ttttcatact ctaaatagaga 180
ttttgcttga aagtaatttt ctccgctggc aaaaaggatt aatactgaca tgaaacatgg 240

gaagtagaat tgagtaacac ctggaatttg aaaatgaaag gggcacagag tgcaggcaag 300
 gg 302

<210> 241

<211> 540

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (519)..(530)

<223> n=unknown

<400> 241

ggaatacctt cagagcagcg ggctcgctca gaggtaatgc tggaaacaca ggctcgctctt 60
 gtgttaggac aaccaggat ataaaggata tagatttgta cgggaataaa ttcacaggac 120
 aagaaatcga tgtgccttat aggtgggttt actgcagaag tgccataata gaaccttctt 180
 acttttaaaa caaccagatc tcaactttcta aagagtaaag gatgaccggc aggatcacgt 240
 ctgtgacgtg agtggaggca gtttgcactc ctggtggctg tttgagaggt agcatttaga 300
 atgcctgtat tcactgtcct gtgatgagtg ggaaaatagg ttatcagggt tatcttagca 360
 aatcaaagc atgtcatcta attgctaaac aagagttggc aaatctgaga gacattactc 420
 aatccttggc atgcaggact tactctgcat cctgttgcca tttatgtctt caaagcattt 480
 aatcatttag ttgtgtttgc aaagtctttg agaagcctnt gtcagaaatn ccctacatct 540

<210> 242

<211> 79

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (8)..(75)

<223> n=unknown

<400> 242
atatacantc tanggagatg cactattagt ggctncttaa agngaatac acttgtttaa 60
accttcttct tcanngcta 79

<210> 243

<211> 299

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (47)..(61)

<223> n=unknown

<400> 243
ggagtcggct aggcggctgg aaacggcggc tgccgccggt gactcangga ggcgggaggc 60
nggggaggag ctcttctctgc aggcgtggaa accatggtgc tcacgctcgg agaaagttag 120
ccggtattgg tggggaggag gtttctcagt ctgtccgcag ccgacggcag cgatggcagc 180
cacgacagct gggacgtgga gcgcgtcgcc gaggggccct ggctctccgg gaccattcga 240
gctgtttccc acaccgacgt taccaagaag gatctgaagg tgtgtgtgga atttgatgg 299

<210> 244

<211> 524

<212> DNA

<213> homo sapiens

<400> 244
ggaaccagc tggaaagtgc tgtggaagga caaatggaga aaagtctcca gaaattggcc 60
tcgtttgaaa ggacctcatg caaagagaga tctttggaga catttcagaa aggtttttat 120
tcaaacatat tcgcagcttg tatgacagtg gaatgttttg aaatgagctt gattctgttt 180
accatcctt cttaatccaa caactctgct ggtctctctg ctgacacaag atcgttcgca 240

ggttatagaa ggatttaaca cgtcagcaac agggagctgc caccaccgtg tactgtgctg	300
ctgtcccaga actggagggg ctgggagggg tgtacttcaa caactgctgc cgctgcatgc	360
cctcaccaga agctcagagc gaagagacgg cccggaccct gtgggcgctc agcgagaggg	420
tgatccaaga acggcttggc agccagtccg gctaagtgga gctcagagcg gatgggcaca	480
cacacccgcc ctgtgtgtgt cccctcacgc aagtgccagg ggct	524

<210> 245

<211> 576

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (36)..(36)

<223> n=unknown

<400> 245

acagcaggag gtttaagtac aatgtgaaag caaganaact gagactgtga ttgacagaca	60
aagggattaa ctaacgtttt attctctgcc ccccaaaata tctgtgtat tcttaagtat	120
atacgttcc cttcctgect ttcaaggat ctaaggaatg atttgaaaaa tttgttataa	180
tctctaaaga attttttgca tagcattagc aaaggagtct atgacaagta ctttgccacc	240
tggtagttct gcgtattcta ctccctctgg gtgtcactgt catcctcact ggctgggaca	300
aggttctgag atttgtctcc ccagcagttg ctaagctggc tcagtcttgg tcaggatgaa	360
tgaacaatt atctctgga tcaatgcagc aaggagcagt gaacacttgc ttttcttcc	420
ctaagtagga gaaggccagc ccccggtgc agtggtggcc gtggtggtag ctggatggga	480
cgaggggacc tcaggctatt ctataacagt aaaagaaaga gaattgctgg tgcttctcca	540
gggagatacg gaacctacac accaagcagg ttttac	576

<210> 246

<211> 436

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (378)..(378)

<223> n=unknown

<400> 246

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gcagttcttt ataatttaaat attctatttt aataaaggcg tttattacca tataaatgta      60
gcaaagaacc tgggctaata tgaaaaaaaa agacttttta ttaggtaatt tattatatga      120
aaaggatatt ttattttatg ataaagtgat ccttaaaaaa ataaaaaac tttagaaggt      180
ttagaatata tgtagggaga gaagaagaaa aaaatacatt tgtattcaga gttaaactct      240
aaaaaaaaaa agtggttttta atatatgttt ggggtttacgt tgcttttttc ccccaacttt      300
tttttgggga ggaatgtcat ttgcttttct tgggggagca tcccgggggt gaatggtgga      360
gagaggagct gggggaance ggccctcct gggacccttc cagtagattg gatttcactc      420
catggactcc tcctcc                                     436
```

<210> 247

<211> 358

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (130)..(130)

<223> n=unknown

<220>

<221> misc_feature

<222> (246)..(246)

<223> n=unknown

<400> 247

```

gtccaaaact tgtgagaaca tacaatttaa agttgaaaac tcatcatttt gggctatttt    60
tgaatagggc tgaaatatgg tgacatgtca ggcactcagt tttttggagc tgtcttaaag    120
gtgaggtggn aagtgagaga tgattttgct ctaattaccc acacattctc cctaaccctc    180
cattttaaga cacttagcta taatagctta agactatcaa aactgctttt gtgattctca    240
gtaggntcta gttcaaagcc atctcagtgc tagtgattgg taattgtaa tttgatggta    300
attaccctac ttgtaaagtt gacattcata ctggctaatc ctccctgccc ctagtcgt    358

```

<210> 248

<211> 276

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (10)..(269)

<223> n=unknown

<400> 248

```

tacaaaaggn ctaattttat ataactatga ggttcttnta catcagaata atatataaac    60
anaggtgnaa atctggtaat tacaaacaca gaaaatanaa accttgntcc cttatttatt    120
actcaccttt cagaacaagt cctnggctca gtngtagang tngggaagan cancacntac    180
ngaagtttnc angnngngnc ncccaaanat gtctataaat aacncattta gntaccctaa    240
ngaacagcan tggcnantag catcaangng tggctt                                276

```

<210> 249

<211> 354

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (308)..(338)

<223> n=unknown

<400> 249

```
aataaacttg aagatactat tacactaatt aaaggaaaga ttgaagaagt tcattcttct 60
gtagaaaaag tagatgttat catatctgag tggatgggct attttcttct gtttgagtct 120
atggttagatt ctgtccttta tgcaaagaac aaatacttgg caaaaggagg ctcggtctac 180
cctgacattt gcactatcag ccttgtagca gtgagtgatg tgataaacat gctgatagaa 240
ttgctttttg ggatgatgtc tatggcttca agatgtcctg catgaagaaa ctcagttatt 300
cccagaancn gttgtggaag ttttagancc gaaagacncc ttatttcaga acct 354
```

<210> 250

<211> 122

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (17)..(120)

<223> n=unknown

<400> 250

```
gaagacttat ggcaaancaa tgcaaataaa aaataacaaa taataaaggg gnnatggcat 60
tttagacttg aactaccctt tcagtacatt tgcataact aaagttctng aaaacaattn 120
aa 122
```

<210> 251

<211> 238

<212> DNA

<213> homo sapiens

<400> 251

```
tcggaaggga atccacatca tattggagat gaccccatca accccagggc tccagcacta 60
ccaagttgga attccacgcc cgggagtggg gtagaggaag acgagacagg acgaggcaga 120
```

aaagcacatt ttaaaaacca gacaagatgg ctaggccatc accaaccaac ggacttacct 180
 tacatctttg taggtaattc cccccaatc ttgatttttt ttttctcaa ttatccct 238

<210> 252

<211> 464

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (394)..(394)

<223> n=unknown

<400> 252
 ttggagtgaaggatttggt aaagattcca taacaggatc tgggttagag aatgcaacca 60
 tctcagtggc tgggtattaat cataatatca caacaggcag atttggtgat ttctaccgat 120
 tacttggtcc tggaacttac aacettacag tagttttaac tgggtatatg ccattgactg 180
 ttactaatgt agtggtgaaa gaaggaccag ccacagaggt ggatttttct cttaggccaa 240
 ctgtaacttc agtaatccct gacacgacag aggctgtatc aactgctagc acagttgcta 300
 tacctaatat tctttctgga acatcatcct cctaccagcc aattcagcca aaggactttc 360
 accaccacca tttccctgat atggaaatct tctngagaag gtttgccaat gaatatccta 420
 acattacccg gctttattcc ttgggggaaat cagtagagtc aaga 464

<210> 253

<211> 475

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (307)..(307)

<223> n=unknown

<220>

<221> misc_feature

<222> (469)..(469)

<223> n=unknown

<400> 253

```
gtctatctgt attgattatt agcacttttc ctaaaatagt tgtctgcaag ggctaatttt      60
ccctgctaaa gaataagaag ttataacaat tgctagccag ttagtagaaa gcgggaaagt      120
atagctgaga aatgattatg ttagcctgta cttacagct cttaccactt acaaagaact      180
ttcatgtaca tgatcgtggt agattttttac aaccactctg tcctataagt aggcctagga      240
gctaccatta aagaaggcag aattttattgg aaagcatcct ggatctggag taatgagacc      300
agggcanggc tgcaccctga ttatgccacc tcagccaagg tactggacct ctcagagcct      360
tgatttcctt taaagggaaat gatattggcc ctacctcaga gagtaacta caagattaca      420
tttgtaacaag cacctccggt taatagatgc ttaatacata agaatakana tagtc          475
```

<210> 254

<211> 428

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (160)..(160)

<223> n=unknown

<400> 254

```
caagaagttc ctttaaacct atcaagaata aaccatcaaa gtcaaataaa ggtagtatag      60
atcaatcagt gttaaaagaa ttaccccttg aactcctggc agaaattgag tccaccatgc      120
cactttgtga acgtgtgaaa atgaacaaac gcaagcgtan acagttaatg aaaagccaaa      180
atatgctgaa atcagttcag atgaagataa tgatagtgat gaagcttttg aatcctctag      240
gaaacgacat aaaaaagatg atgataaagc ttgggaatat gaagagcgtg acagaagaag      300
```

ctctggggat cataggagaa gtggccactc tcatgaagga agaaggagtt caggtggtgg	360
tcgttatcga aaccgaagtc cgtccagatt ctgacatgga agattattct cctcctccca	420
gccttagt	428

<210> 255

<211> 437

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (60)..(433)

<223> n=unknown

<400> 255	
tgggaggagg agaataatct tccatgtcag aatctgacgg acttcgggtt cgataacgan	60
caccacctga actccttctt ccttcatgag agtggccact tctcctatga tnccagagc	120
ttcttctgtc acgctcttca tattcccaag ctttatnate anctttttta tgtcggttcc	180
tagaggantc aaaagcttca tcaactatcat tatcttcanc tgaactgatt tcagcatatt	240
ttggcnttca ttaactgnge tacgcttgcg tntgtncatt ttcacacgnt cacaaagtgg	300
catggtggac tcaatttctg ccaggagntc agggggnaat tcnttnaaca ctgattnate	360
natacnacct ttatttgact ttgatggntt antcctgata ggtttaaggg aacttcttnc	420
tcgagcngaa ttncgag	437

<210> 256

<211> 349

<212> DNA

<213> homo sapiens

<400> 256	
gcagaattga aattggaata caagggagca agagtggatg ttggcacacc aatcaaaaga	60
ctgttgtacc agtccaggta gtttgggatt gtggaaatag agaatttata gatttgagga	120
aaatttagga gataaataaa caggaatttc taaaacaaac tgaatgagaa agtgtcagag	180

atgtctccag aattttttga cttgtgtaaa ttaataaata ttagtgccag ttattaaatt 240
 ctgaaacttc atgagatcta gatttgtatt atgaagttag ttaatttta catatgttga 300
 ttttaagggtg ccaatgaaat ctccatttgg aaatgggtggt taggatatt 349

<210> 257

<211> 225

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (20)..(213)

<223> n=unknown

<400> 257

tgccttatca atatcctaan caccatttcc aaatggagat ttcattgnca cctttanaat 60
 caacatatgt aaaattaaac nnacttcata atacaaatct aganctcatg aagtntcana 120
 atttaataac tggcactaat atttantaat ttananaagt caanaaatte nggagacatc 180
 tctganactt tctcattnca gtttgnntta ganattcctg tttat 225

<210> 258

<211> 429

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (344)..(393)

<223> n=unknown

<400> 258

ccctcgcgga tgggcagggtg ctgtagccc ttggcctgga aaccacctg tctcctcagc 60

agcctcctga gccgtagtcc cccaaagggc agcccagcgg caatatctgt ggccacccca	120
ccagaaaggg acttagatcc ccagagagcc cggcacggtg ctctgccat catcacccct	180
cctgtccctt gttcattcag tcattcagca agcatttcag gccctgttct gtgccaaccc	240
tgtgctgggc ctgcgggtac caaggtgaat caggcatggt gccagccccg gagagggtccc	300
tgacctgtgg ggagacatac cattagcaca cagacaacga aatncaggng tcctttcacc	360
tatatgtgcc aaacgccctt caaggctcaa ggntacagtg gaaacagata aggttctccc	420
tggtctcct	429

<210> 259

<211> 549

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (6)..(540)

<223> n=unknown

<400> 259

tcttanagtt ggnatgaacc tcagaaattc cttatctctt ccatttccca gataaganag	60
tgagactggg agataggatt gactttccta agaccacaga gtngnnnnngg aggagggact	120
gagttggata ggtcagtttg ggcagcaaga cgggcttcta tctttatccc acagtcccag	180
gcaccattgt gcttgacaca gaatccaaac tcccagctgt ggctacaaa gccctggtga	240
tcagggcctt gccaaactccc tccagcctca cctgaggcac ccactccttc cctgtcatca	300
ggccccggcc caccttgatt gccattccct ttgccaagaa tgcccttcg cctgatcttc	360
atgggtcagg atccatcttg ccattcagtg aaatgtcacn tcctctgtga ggccttgcct	420
gatcacctct acagttaccc ccattgctct canctggggg ctgttttggt ttttccatag	480
aagttatgat gacctgnaat aatcttttgg tgtttcctgc tttttgtgtg taacctcntn	540
caacctaag	549

<210> 260

<211> 474

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (25)..(473)

<223> n=unknown

<400> 260

```
gtgaaatgct ctagcaatga agcanggnag gnagangggg gaaaggaaat ttgagccaag      60
caacctgaag gtcaggggaa gccgggtctta cagatgttaa gggaggaatc caagtaggca      120
aaggggatga acagcagtgc aaaggctctg gggcagcagg ttgcccggta tgttccagaa      180
caggaaggcg gccagtgtgg ctggcatgga gagctaaggc tcaaaggaga aagtgaagag      240
aaagaggtag taagggacca ggaggaattg agcccggcca gccgtgctac tgatgttagc      300
ccacatgtca cagtgtgtga gggagataga gtccttgga acaataatat gcagagcttt      360
taaaaacttt catactgtag ccatcaattc catcatcatg gtggtggtat ccctgggtgg      420
tggtgggtta cttggtagag tatacgtcaa cncgnatttc ttctccaaa agna              474
```

<210> 261

<211> 520

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (5)..(495)

<223> n=unknown

<400> 261

```
attcnnnagg cntgccangn ccacatcctc tctctacaga cngggaaant ntctccaaca      60
gcaggagcca ggctcaacgg cggggcaggc atatacatgg cctancatct tcaggcctca      120
gattttccat taaaaaacag ggataacaac aagatccaac cctacgcata ggtnattggg      180
```

attcaatacc atttttaaat gtcttatgaa ttataaggta cgcnaaaac gttaagtttt	240
cagaataang catgtcattc catgattaca aacttggtgct tttgttttgc agtttatcct	300
gtaagcacgt cccagtagtt tccccaacct caatgggtacc tcagcgtctt cattccacta	360
gntcacttct aggtctttttt caaattttat atacttttga ggaagaaatt cgagttgacg	420
tatactctac caagtaacca ccaccacca gggatancac caccatgatg atggnattna	480
tggtacagt atganagttt ttaaaagctc tgcatattat	520

<210> 262

<211> 466

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (462)..(462)

<223> n=unknown

<400> 262

ctcagattaa cttcctcaga taaagtgtca gcggtctgca gaaacgaaga agacaaaact	60
gagattatca ctcataattc tcttacttac tatgtcagtg aaacaatgag tttgcatttt	120
tgcaatccta gaacattctt cattagccct gggcatgac ctcttccagt taattctctt	180
tcacaccttt aggaaagatt taagatgaac cttcaatagg atattaacat aactcatagc	240
caataccaca gotgcctttc aaattaatga ggttaattgt tctccagcaa acatgagttt	300
gtctttggca ttttaaatgc ttccattga tctgacattt tgctgtttca agttttaaag	360
ggctcaaatac aaagactatt gataactgag caaagagcga agatccagaa atacgaaaac	420
attgtctttt tttttccatg aaaaacaatc atagcctttt gnattc	466

<210> 263

<211> 500

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (438)..(438)

<223> n=unknown

<400> 263

```
aaatgaaatt ttctgtatt tacatTTTTa caccatatga ccgggcactt ctgttgccTc      60
aggagttata tacatatcag tttgcacacg aatttcaatc cccattcctt aaaacagttg      120
ataacacatt gaacaaaatt aaaagacata ctacaagaag acaaccatag tatatacttc      180
ctctatcata gaaaggTgtt aagcaaacat ataattttgt agctatgctt ggaaatattt      240
aatacactta ttagcacttc ctcatgcagt ggattaaaac atgacagata taaactgctg      300
cagttgatca gtgaacatta attcccaaTt gaagaccatt gcttagagca gacagcttgc      360
tttcagctcc accatacaag acatcaagtc agttctgatg tgggttttgg attctgtttg      420
aatgtagctg tgaatagnaa ccctctgcat atggagttca atcctagcct tgttgggtaa      480
aaatggactc agacataaac                                         500
```

<210> 264

<211> 486

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (81)..(461)

<223> n=unknown

<400> 264

```
cagtgacttt aaactaaaga acttaattaa agaacattgt tcccataggt taaattttta      60
ttcttattta aacatatttt nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnntatag ggtcattttc atgggtataa      300
```

taaaaattat atacaagtat aaataaaaatc ctgagtctta aaattctgag tectgcttaa	360
acattttaaa aattntgtta tgtatttttc tttgaacatg tctctctgcc tggcaaaaaca	420
taaccagaat tttagtattg gttacataga gttactata nccataatat tactctaaaa	480
ataaat	486

<210> 265

<211> 561

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (288) .. (483)

<223> n=unknown

<400> 265	
caatattgct cttttctttt gaaaataggt acaaactcac actcacacaa aaacagtcca	60
taactttctt gcacttaaca tttattttta gagtaatata tgggtatagt taactctatg	120
taaaccaata ctaaaattct gttatgtttg caggcagaga gacatgttca aagaaaaata	180
cataacaaaa tttttaaaat gtttaagcag gactcagaat ttttaagactc aggattttat	240
ttatacttgt atataatttt tattataccc atgaaaatga ccctatannn nnnnnnnnnn	300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	480
nnnaaatatg tttaaataag aataaaaatt taacctatgg gaacaatggt ctttaattaa	540
gttcttttagt ttaaagtcac t	561

<210> 266

<211> 409

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (344)..(344)

<223> n=unknown

<400> 266

```
cacatgctga tgacaaagaa gcttggtttt ctgggttttag tctcaggggtg gggttggagg      60
tgaggctggg gtcccccta gctttatact tagaaaccct gcctttatta gggtttgaga      120
aatgaattta cattccctgc tcaaccagg agtcatgaag tccaaagact gacagaatgg      180
tcctgggtgc attaaacctt tgagtcacct ggcaaaaata aatctaaaag tcaccaagaa      240
agctgcaggg ttggcatgga taaaacactg ctgcagggtca gctcacagcc cgcagattct      300
aaaacccta tgctcacagc ccaccatggg tacgagttca ccgncataac acacaggaag      360
gagttcctta gatccccaag aatttgagtg tttcacgtat cctacaaga      409
```

<210> 267

<211> 356

<212> DNA

<213> homo sapiens

<400> 267

```
gatgagggtg aggaagatgg aggtgaggct tggctgctga ggcacccaag tgtgaccaa      60
atgccacag agagccaacg tgcactaaga gctgtcctc ctcttcttt ttttctacc      120
ctcgacctca gtctgcgttt tgtgtcaggt tgactgttct gaatcccaa gacccagtt      180
atctcaagga gaagcattca ttttccggag aattcattag aagtcaattt tgtttttatg      240
caagtaggaa aaaacttgca cagctgcccc agctcttcag gaagagccat tcaaaagcca      300
gatcatccag aagggtgacc ttctggaggt ggggataacc gggcttagtt gaagtt      356
```

<210> 268

<211> 278

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (246)..(246)

<223> n=unknown

<400> 268

```
gcccttacta ttaacttacc acctgtggtg cagaaatagt atgttcaagc ctatcagctt    60
ttgagaagat tccagatttc attctcatat gaaatggcca ttccatatgt cattatcatg    120
ttgagatgta ttaattcact aagtttttat aaagtatatg tagatatata ctaacatctc    180
agagcttcca tcatggctcc aaaccattta tcaaataaag ttcacaaag tcacaatctt    240
cagatnataa aatgaataca aaatttatta agtcgtta    278
```

<210> 269

<211> 365

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (200)..(200)

<223> n=unknown

<400> 269

```
cctcctcttc tcagctccct tctgctggga gcacctggct gccagttccc aagttcctct    60
ccatggggaa ttgcagctcc aaggtggcct cctggagctg cctaactccg ccttcactga    120
aaataagggtg attgaactgt aaagctgaaa tcctctgcag tcatgtctcc tccagagtct    180
tcaaggtcac tcccactttt tttctagaca caaatggggt catttttgta attctaatta    240
acactgtctc cagacataaa taaaatttta aatttctcat tgctatcagc tgtttccact    300
atgtttttca taaattggaa tgcaatttta aacagttaat aaaattctcc agtacaagag    360
caaaa    365
```

<210> 270

<211> 260

<212> DNA

<213> homo sapiens

<400> 270

```
acgtgtgtat tcatacagcct ctgcaatcaa gttcctgagc cctgggtcatt tcacctatatt 60
agtgtttctgt ctgcttttctgt gtgtaaggaa gtgcctttta tttaaaggctg aacatttttta 120
atttcaggga aagccagagt ccaggctgaa acccacaat accatggcaa cctatttagc 180
actcttgaca cattactacc ctaatgaaga catccttgct aatgccagag ccaaacagct 240
atttattaac tcagcctaac 260
```

<210> 271

<211> 389

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (75)..(75)

<223> n=unknown

<220>

<221> misc_feature

<222> (355)..(355)

<223> n=unknown

<400> 271

```
aagacttttg ttttatattc agtaaaatga ggcacccttg gagggctctg agtaaagcgg 60
agacagaatc cgatntcccc ctctttttaa gggtagctctg tctgctgtgc tgaggataaa 120
ctgtagacta tctcaaagcc agttgcatag tattttatatt ttctttattta atattgcccc 180
gatatttaag ttcttatctg ttgttacctt tggaagtttt cattttttta catctactct 240
ctacatttta ctcttttctg attataaaat taatatggat cattgaggaa catttacaat 300
```

tatagacaag cataaataaa taaacacctt ccaaaaaatcc agaatcagag acaancactg	360
ttaatatatta gtatatccca accattttt	389

<210> 272

<211> 587

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (344)..(581)

<223> n=unknown

<220>

<221> misc_feature

<222> (12)..(12)

<223> n=unknown

<400> 272

ataactcaag antctacaag aaaataatca ttgattttcc tctagaaat ccattctaag	60
gatataatct aaaatgtaga cagagagcta tgcacacagt aataagagaa agaaatgaaa	120
acaatttaaa tgtcctcaat taggagaata tctatatgac agaatgttta caaagagttc	180
ttgattacac cggaaaagac ttaagatatt cattttaaaa cacaggttca ataataataa	240
gaaaaaagac acagaaaaat ggttgaata tactaaatat taacagtggg tgtctctgat	300
tctggatttt tggaagggtg tctatgtatt tatgcttgtc tatnatngna aatgttcctc	360
antgatccat attaatttna taatcagnga agagtaaaat gtagagagta gatgttaana	420
aatganaact tccaaaggta acaacagatn agaacttaaa tatctgggca atattanng	480
aganaaataa natactatgc tactggctng agatagtcna cagtttatcc tcagcacagc	540
agacagggta ccctttaana gngggggaga tcggattctg nctccgc	587

<210> 273

<211> 465

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (430)..(430)

<223> n=unknown

<400> 273

```
gtcttttatt gttgatttct catttggtta ggtcggcagc acagatcatg gtctatatgg      60
ttggttctta atatgtattg agacttcttt tatagagtat ttttttgaa atactccatg      120
agtacctgaa aaaatatcta ttattttgtc atattttccc ccaaaggtag gcatgtcagt      180
ggtgataagc taatatctct aaaaactttg taatagtaat ttttaatggt tgcttttagta      240
ttatagtgca tttctactag aattagtatg gtaattctct cttaaaggctt aaactttgct      300
gtctcatttt acctttttta cccccagggt aaccaaatat tctttaggcc atcatcattt      360
gtcagtgaag tgggtgggatt ggggtggagag ggatatgaag cataactaac acatgcattt      420
ctttaaatan cacttgccag cccagaagt gtgagccaga ctttg      465
```

<210> 274

<211> 578

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (125)..(372)

<223> n=unknown

<400> 274

```
gctaactgta cactacgtac taatgatggt caattatttt atagaagaag tgtatttcaa      60
tatgttttta aatttttaag taagcttctt tgtgacccaa aattaatcac cattgatgat      120
aatgnagatc tttaaacctg ttacaaatca gttgacaaat ttaaatttaa tatcttttat      180
```

taagatagaa ccctgagtgt atacaanatg caacattaat attccacata ttcatatagt	240
aagttgctta tctaggagag ggtantttca gtgctaaatt tgggatttta cctacattcg	300
taactcctcc catgtgattt ttaatatata tgtnaataac aaagtctggc tcacacttct	360
ggggctggca antggtatat aaagaaatgc atgtgtaagt atgcttcata tccctctcca	420
cccaatccac catttcactg acaaatgatg atggcctaaa gaatatttgg ttaacctggg	480
ggtaaaaaag gtaaaatgag acagcaaagt ttaagccttt agagagaatt accatactaa	540
ttctagtaga aatgcactat aatactaaag ccaacatt	578

<210> 275

<211> 483

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (201)..(470)

<223> n=unknown

<400> 275	
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acgatctggc tcatccatct gcacactgac cacgctaaga gctgtctgca gtgatggaaa	120
ccttctctag ctgtgctgtc ctctatagtg gcaccagctg cctgtggcta ctgagcactt	180
caactgtggc tgtagagact nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn ngtgcacatt tcctgctggc	300
catggacagt aagctccata agagactaat tgtgcttggt ttgcttatag gcttatectc	360
agcacctgca ccagcctaga atatgattgg cactctatta attaaaagtt cccaggtaaa	420
tgaattagtg gattctctgt ttcctccact atggccacaa cctccttaan ggcagagatg	480
gtg	483

<210> 276

<211> 444

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (5) .. (246)

<223> n=unknown

<400> 276

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gaggnaacag agaatccact aattcattta cctggnaact tttaattaat agagtgccaa      60
tcatattcta ggctggtgca ggtgctgagg ataagcctat aagcaaacca ggcacaatta      120
gtctcttatg gagcttactg tccatggcca gcaggaaatg tgcacnnnnn nnnnnnnnnn      180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      240
nnnnnnagtc tctgcagcca cagttgaagt gctcagtagc cacaggcagc tggtgccact      300
atagaggaca gcacagctag agaaggtttc catcactgca gacagctctt agcgtgggtca      360
gtgtgcagat ggatgagcca gatcgtcaag tagggggccc tgccagtctc tccagtgcct      420
ttgtgccagt ttcaaaaggt tttc                                         444
```

<210> 277

<211> 406

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (330) .. (361)

<223> n=unknown

<400> 277

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gcttgccctg gcttgcacag ctggtccacg agctggatct gtggcagggc tttcagcggg      60
ggccagagct tgagcttcta aggtgctcct gctctcgtg acagcctcag agggcctggg      120
gcagagaggc cccctctgct tctcctgggc tttctccctg agcttcttgc aacacctccc      180
tgtgagcaca catcttctctg gtggggcccc ttctgcttcc gctctagggg aggctctgtg      240
```

gcttgggtct gggggccacc gttggggatg cggatggcca ggagtggggc tgctgagcgc	300
ctgggctagt gacagcctgc ctccaaccan tcccagaagc cctgctggaa tccccacct	360
nttccgaggc taggagcctc tgccctctct caaacttcat acagtc	406

<210> 278

<211> 416

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (57)..(404)

<223> n=unknown

<400> 278	
aagggtatatt ggtgacagga acaatgggcc aagggtgggg actgtatgaa gtttgangag	60
aggcagatgc tcctagcctc ggaagagggtg ggggattcca ncagggcttc tnggantggt	120
ttgaggcagg ctgtcactan cccaggcgct cagcagcncc actcnggcc atccgcatcc	180
ccaacggtgg cccccagacc caagccacag agcctcccct agagcggaag cagaaggggc	240
cccaccagga agctgtgtgc tcanaggag gtgttgcaag aagctcagg agaaagcnca	300
gganaagcan agggggcctc tntgccccag gccctctgag gctgtcagcg agagcaggag	360
cnccttagaa gctnaagctc tngccccgc tgtaaanccc tgnacagat ccagct	416

<210> 279

<211> 543

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (451)..(529)

<223> n=unknown

<400> 279
caagcagtaa tctgagtggg acgcagggaa tttggtgccc cagaaaaaat gtgccaggtt 60
ggcctggtct gggagtaccc agggaggctt ttcaggaggg gacacataaa ccatttcctt 120
gaacaaactc atcatgttca ggcaggcact caaggccttc tcagtggctt tccagacttt 180
tttctgactc ttgcctttgc tacagccgga tgggccaggc accactctgg gctctccoga 240
gctccttcca cctctctcct cctctcaacc cacaggacat ttacaggat ctgcttctca 300
cctggaatgt ctctctgac tcctctcctt tctgtttcaa tgtgctttcc catttcttaa 360
catccaatga taattccctg tgggtcagtc tctccccttc tcaccaccaa tggcccttgg 420
gatctgatcc actcattggc cagttaatgg ncttggtgag ttggaaacag catttcattt 480
attanatann aattatagan agccatcagc ctaggcaaca cagtgaganc ccccttctgc 540
tac 543

<210> 280

<211> 511

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (237)..(341)

<223> n=unknown

<400> 280
ttctataatt tttattttaat aaatgaaatg ctgtttccaa ctcaacaagg ccattaactg 60
gccaatgagt ggatcagatc ccaagggcca ttggtggtga gaaggggaga gactgaccca 120
caggggaatta tcattggatg ttaagaaatg ggaaagcaca ttgaaacaga aaggagatga 180
gtcagaggag acattccagg tgagaagcag atcctgtaaa atgtcctgtg ggttganang 240
angagagagg tggaaggagc tcgggagagc ccagagtggg gcctggacca tccggctgta 300
gcaaaggcaa gagtcagana aaagtctgga aagccactga naaggccttg agtgccctgcc 360
tgaacatgat gagtttggtc aaggaaatgg tttatgtgtc cctcctgaa aagcctccct 420
gggtactccc agaccaggcc aacctggcac attttttctg gggcaccaaa ttccttgcgt 480

cccactcaga ttactgcttg cttcgagccg a

511

<210> 281

<211> 466

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (205)..(205)

<223> n=unknown

<220>

<221> misc_feature

<222> (411)..(411)

<223> n=unknown

<400> 281

gtgatactct tatgaatatt aatagcaagg ttattccatc tgtgctatgg gatcttgctg 60

ctgctgctgt tgggttttat gttgtttcca tggcagggga aggtagatgg taggagtgag 120

tgtttttttag ttgtgagctt tttttttcct tgagctataa atatttaaaa gaaatttgaa 180

tattaatatg cttttctggt tatgntcatg aaatgcttga attctctatt acttcttttt 240

aaagcaagca actaaataat cataattttt ctcttaaatt ttgcctgcct cacagttttt 300

acagtgtgaa actgatagca ttgtcaaaac aactctgaca ttctgaatta catatacaca 360

ggaaactgac aaatgtttat gagtacctgg gatttgggtt tttcttttaa nctatgtatt 420

agtactataa ttactagtta ttttgagggc agaatagtaa ctgtgt 466

<210> 282

<211> 484

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (3)..(3)

<223> n=unknown

<220>

<221> misc_feature

<222> (212)..(212)

<223> n=unknown

<220>

<221> misc_feature

<222> (35)..(478)

<223> n=unknown

<400> 282

ttntttattg catccatgtg aaattccttg aagttttctt agagtatatg gaatctttat	60
gataaatcca taccatatca gaaagtatac atgaaagttc tagttatatac attgtgctac	120
taagagttta acctatatgg agatcagtta cacacagtta ctattctgcc ctcaaaataa	180
ctagtaatta tagtactaat acataggtta anagaaaaaa cccaaatccc atgtactcat	240
aaacatttgt cagtttcttg tgtatatgta attcagaatg tcagagttgt tttgacaatg	300
ctatcagttt cacactgtaa aaactgtgag gcaggcaaaa tttaagagan aaattatgat	360
tatttagttg cttgctttta anagaagtaa tagagnattc aagcatttca tgatcataaa	420
cngaagaagc ntatnaatat tcaaatttct tttaaatntt tatagctcan gganaannaa	480
agct	484

<210> 283

<211> 503

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (452) .. (486)

<223> n=unknown

<400> 283

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gtggttctct ttctttgcag tggcacattg ctaaattttg gcacatgatg aagaagatgt    60
ctcttcagtt gcttaagaag tggggagcaa agagaggtag agggaggtga aacttataaa    120
gggaaaggca ggaggaaggt tgccaatgca ccttctagcc ggaagctggt gtggctgccc    180
atgcctttta tgacaaacca aacttaacca tgggccattt gtccctgtg gctccctttg    240
tgtttctcgt ttctcgtcta tgttgatggc actcctgctc cttgtttctt gatgttcctg    300
catgctaaat tatttcaggg cagtgaagc catctcaact cctagttgta ccaaagcaga    360
aatgtcaact aaattatctt taatgaaatc attttctttt ttaatcatag agtcaaccaa    420
agtggagaaa aaaaagattt gctttaattg cngccacttg gaacacccag cctgggggta    480
aacatncttt catcttgcat gat                                           503
```

<210> 284

<211> 375

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (17) .. (362)

<223> n=unknown

<400> 284

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tgacagcggg gttaganang gntaggtaga acctatatta cgganntcag ccttgcccat    60
ttcttttagtn cagtgattaa aattgaaatt acttttacia aacaattgaa ctgctgctta    120
caatataaac agaataccaa caggattcct gttgtattca cattattctc taattagtat    180
ttttacattt ccactttcnn tccagaacca angccactgc cttagcccaa ggtcanctgt    240
gngtgcctan gctcttgcaa cagtttccta gctgggtgtc cttgantgcc gtcttttnta    300
```


acacaatcca tcnctcacac agccacaggn ttgtctcant ttcancacag cctgcaacat 360
ancattctgc tttaa 375

<210> 285

<211> 385

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (13)..(13)

<223> n=unknown

<220>

<221> misc_feature

<222> (204)..(204)

<223> n=unknown

<400> 285
ggctggcaca gtngaggggg aatgtgcctg acttgtatat aaaggcagca cagtggctgg 60
gcaagacaca cattgtggac agaaccaagt ttatggacca gccttcctg tgaaatttga 120
cttttcctc tttgctgaat tggtcagggt aacaatgggt acccctggat tacaggaagg 180
gcatgtgcta aaagcctcct tgcnagaccc acatggcct cagatgagca attgttcaga 240
ttccttttct ttttcttttc catgggaata agctttcctc tctccaaagt acatgtttta 300
ggctttttta ttttcttgct actcccaagg acctggtgat atttttcttt accatgcatt 360
aaacagaatc tgtgagtctt ttctg 385

<210> 286

<211> 217

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (12)..(217)

<223> n=unknown

<400> 286

```
atcaatatca cnanntcctt gagnantagc aanaaaataa aaaagcctaa aacangtact      60
ttggagagan gnnagcntat tcccatggaa nananaaaga cgaggaatct gaacaattgn      120
tcactnagg gccatgtngg tctccaagga ggcttttagc acatgccctt cctgtantcc      180
aggggnacc attgntancc tnnccanttc agcnaan                                217
```

<210> 287

<211> 415

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (336)..(336)

<223> n=unknown

<400> 287

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ctttttttgt tggatattgt ttgtttacat tggcactatt ttatcttggc actacttttc      60
agatttgaat catgttttca tactttggct gccttgtctg ctggttttcg tgtggctttg      120
tcttttagaa tatcttggct ctatcttata aagagagaga cctgggtag aagagtatga      180
ttaagtctat caatatcttg gttcattatt gccagataat ggcaggagaa ataggctctg      240
caacccaagc cagttaattt tgctttttgt taaaagcttt attgaaaggc caattaggat      300
aataagatga agggaagggt atctttcaat attagntatc agtgtaagat ctcttttttt      360
ctctagtatt atgggacaag ttttaagattg attcaatatg gggagaagca tttta          415
```

<210> 288

<211> 593

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (550)..(550)

<223> n=unknown

<400> 288

```
tattgtatta ggtgctttcc tacattacc tttctgtggc attaaatgta ttttcaaaag      60
atgaattatc aagagggatt attcaaatta gagaagcaca cacattacca acattattgt      120
ttttaaataa tttatgttca aagagtgttg ttaaaaatgt acacatttca ataccaatct      180
gcatatgcag catttaacca aaaaatttta gagcaaata tactaaattg aagagtcattg      240
gataatgtga aaattctgca atttttagatt aatttacttt caagttcaaa taatagaatt      300
atctgcatga ttacaaacta tgcacttcaa agagtagtta gcatcccttg acagtgcctt      360
aaaatgcttc tcccatattg aatcaatctt aacttgtcca taatactaga gaaaaaaaga      420
gatcttacac tgataactaa tattgaaaga taaccttccc ttcattcttat taccctaatt      480
gacctttcaa taaagctttt aacaaaaagc aaaattaact ggcttgggtt gcagagccta      540
tttctcctgn cattatctgg caataatgaa ccaagatatt ggatagactt aat              593
```

<210> 289

<211> 404

<212> DNA

<213> homo sapiens

<400> 289

```
ggtacttaca ttttttagtt atcataaaaa ttgagccccc aaaacattac aaagaaccca      60
gtaaaaccta agatcatgaa aaagcagtca agagaaccca acaaatgaga gaatttatac      120
ctgagaaaag aagaacaatc tgggtgagagt ttaaaaataa gttaaaattc tcaatatatg      180
tacagaagaa gttagatttt acagagtgaag gaacagataa tgaaacaaga agagaaagct      240
gtgagaaaga agcgttttaga catcttgaag tgaaaaatat tataaatata atattgaagt      300
aaaagaacag ttagactgca catactttct atagcttaag agaaaattac aggttaggaa      360
```

atagaactga gaaaatcttt cagaatgcag ttagagaga gtta

404

<210> 290

<211> 442

<212> DNA

<213> homo sapiens

<400> 290

gtcatctttc atgtccatct ttctctttca tttctctcta actctctcta aactgcattc 60
tgaaagattt tctcagttct atttctaat tctgtaattt tctcttaagc tatagaaagt 120
atgtgcagtc taactgttct ttacttcaa tattgtattt ataataattt tcacttcaag 180
atgtctaaac gcttctttct cacagctttc tcttcttggt tcattatctg ttcttcattc 240
tgtaaaatct aacttcttct gtacatatat tgagaatttt aacttatttt taaactctca 300
ccagattggt cttcttttct caggtataaa ttctctcatt tgttgggttc tcttgactgc 360
ttttcatga tcttaggttt tactgggttc ttgtaatgt tttgggggct caatttttat 420
gataactaaa aaatgtaagt ac 442

<210> 291

<211> 467

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (255) .. (255)

<223> n=unknown

<220>

<221> misc_feature

<222> (417) .. (426)

<223> n=unknown

<400> 291
gccagggtgg tgtccgtctg ctcacctgag gagctccctg ggtctgccag cttcctgcct 60
ggccaagccc ttcccctgca cttgtaagac gacgactgag cgtggctgat cctgcccggg 120
ttctgggtgg atagtggaac ctgggggaac cagggtagaa tcccttatgg gaggcagcca 180
ttggcctggc caggcttttg gcgctgttg agacagggt gaatttttag ccctgagtgt 240
aggcacaggc gaganctgga gcccaggcac ttgttcctg tgtggctggc tgctcatctc 300
tgatttagct ttggctcaat ttttgtccta ccccctgatt gctactggag ccagcatggg 360
ggtcacagcc actggtgtct tagggccctg gaagagaaga cagcaatccc aggttgncct 420
ntcctntgct cagggtgat cctggcagac atggaagagg agatagg 467

<210> 292

<211> 405

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (87)..(393)

<223> n=unknown

<400> 292
acactgttct ggagcccatc ccaccaccta ctggtggggg tccacttcac tggaacacct 60
ctcacaaggc ggctcccttc tagcgtnccg gattccagt aggtgtggca tgctagactg 120
ccacatgaag ttttggtgt ggcccttccc cgcatacct ccaaaactgt aaaatgcttc 180
cccgaccttg gagacgggga ccagagagat gtcctctgca gttcttccca gaggtgtggg 240
ggccttcaca tgggctgacg cagctcaaac atgaactgaa cgatggcttg tntcttcng 300
catttgncat gnngaccag ctccctccca agtcttntnc ntatctntcc tgcctatctn 360
gtcncctatg tetgccagga tcagccctga gcngagggat gaggg 405

<210> 293

<211> 383

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (313)..(313)

<223> n=unknown

<400> 293

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cagtcttctc ggggcatgct gtgtgcagtg ggtacttaca agttaactgg taaatgtaat 60
tctcatgagc tgggtgaact gggggcaact tcgagccctt ccccttgacc accttaggga 120
gcaggggagc tagctgtcct cagcagcctc cgcagcccac ccaaagtctg tccctcgctc 180
agggacatgg cagccccag cacacatcct ctgctcccggt ctttcccggc cctgggtgttt 240
tctagcctac cttgccctgt gtgtccctct ggaatcaaata catgggcaga tgtagctgct 300
gctggccgtg ggncccgttc tgttccctga ggtggcagcc tctaacctgg caagtgttct 360
tgtgtctctc cagtgcgagg acg 383
```

<210> 294

<211> 596

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (538)..(564)

<223> n=unknown

<400> 294

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gttcatttcc aatcatttct ctccggttct tgttccctaag cggcccaagc caagatgatc 60
attccagttt attttcaact ttccgctgga tcttccatgc cctccccaat ttggccgacg 120
cagagggagg cgaccctgct gggttcacag cagcaaactg tcgtttaagt ccaacaaaact 180
agtcaatctt ggtcggtggt caccgaacaa acccatctcg ctctgggtcc ccaggtgcag 240
aatcgatgtg tgttcttcac caacgcacag accgcttctt cactccagtg ttcacttcct 300
```

ccagtcttca gccgagagga catctgcggt cataaggcca ctcggatgca gtggtgcttg	360
agtttgcaag gcaggactcc tttgttcagc tggtaaaagt caaccagctg gatcaggtca	420
gagaatttgg tgttcccgtc atctaggctg aagaacgtct gcccgtcgtc ctgcactgg	480
agagacacaa gaacacttgc caggtttagag gctgcaacct cagggaacag aacgggggcc	540
acggcaagca gcagctacat ctgnccatga tttgattcca gagggacaca cagggc	596

<210> 295

<211> 386

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (366)..(366)

<223> n=unknown

<400> 295	
gctagcctaa ctattcccca acacctttag gaagataggt cttccctgac cctcagtctg	60
aggtctagaa gcccttctgc cttgcctcac aggcattctt cctcctcccc cgccccctag	120
accagtccaa cagcagcccg tgcagcctct gaagtccact cccagtgcta gctgatggga	180
accccatggg ctctgtctg ctatacaaat ggaacagact ttcttcagag ccaaccccag	240
ctgccccact gaagctgggt gccacagtga ttttcagtct cataccagat tctgatctct	300
tctcttgccc acctttgggt ctgcagagtg gatcatcttg ttttatactc aagtcatcat	360
taaaanttat agaaaaagag agaatt	386

<210> 296

<211> 351

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (15)..(347)

<223> n=unknown

<400> 296

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gcttcaacat acganttttc agntcatgac atctacatat gtatgactgt atcagtcaat      60
gtctagtcag gaaaacagaa accactggag ataattcaaa cagagaggan tttcatgcac      120
agttagttat aaaagtgtag gaaagactgg tggaacaaaa tgcagaagtt acctagggat      180
cagaaagccg ctaccatggc tgggttggga gccacaagc ctgcantttc tgnttccact      240
gctcgagctg aaaccacatt tccgctgctg accagaaacc taggagccca cccccccact      300
gnttctantg aaactgccta ttatgctttc aactggaagg ggttganttt t              351
```

<210> 297

<211> 536

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (469)..(531)

<223> n=unknown

<400> 297

```
gatacaaaat caacatataa aatcaatgta ttttatgcc a gcaatataca gtcacaaaat      60
ataattatta gaaacttctc atttctaatt ataatggaaa ttacatata agaataaac      120
aaaaaacatg tacaaccttt atggaaaaaa ttatacttca ttaaaagata ttaatgatga      180
cctaagtaaa tggagagaga taacccatga taatggatag aagagtcaat accagaaaaa      240
agagtgaatt ttccctaact taatctaaaa attcaacccc ttccagttga aagcataata      300
ggcagtttca gtagaatcag tgggggtgtg ggctcctagg tttctggtca gcagcggaaa      360
tgtggtttca gctcgagcag tggaagcaga aagtgcaggc ttgtgggctc ccaaccagc      420
catggtagcg gctttctgat ccctaggtaa cttctgcatt ttgttccanc agtctttcct      480
acacttttat aactaactgt gcatgaaatt cctctctggt ttgaattatc ntccag      536
```


<210> 298

<211> 186

<212> DNA

<213> homo sapiens

<400> 298

```
cttacagcaa atagatttgg gatggaaaat accagacctc tggttgtgtc agggtttata 60
ctaatagctt tcctgagaca gagctcagac tttcattttt gatcttccac cccagggccc 120
cctctctgtc tatgggatcc tttctcccct ctctctacca ttttcccgta ccttccccca 180
taagtc 186
```

<210> 299

<211> 447

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (19)..(19)

<223> n=unknown

<220>

<221> misc_feature

<222> (386)..(414)

<223> n=unknown

<400> 299

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ccacacagtg agaatttang gggagatctt aaactactta tgtagttgca aagttgaaaa 60
atttactgat cctaattgga aggcattatc acaaattcaa tacattttga aattatactt 120
caaacgcaat tacttcgaaa aaagattaac ctgctctcca acaatataag agcattatat 180
tctaataaaa aaattggcac caaaccagta tgctattttt caaaagaaca agtgatatta 240
atgaaaaata ttgcctaaaa cgcatatcct aacttatcac agaaatataa aagtttatat 300
```

tttgaaaata tatactgtat taaagtctgt aagcatttca accaaaattt gcagaaataa	360
ctaagcaaca cttatctaca acaaanatat acatgcaaga caaccccaaa tggnttcct	420
taaatatcta caaaggcaaa gtgtaga	447

<210> 300

<211> 382

<212> DNA

<213> homo sapiens

<400> 300

tttcacaact gtatactggt gactattcaa aacacaaggc taagaaatgg cttcaaattc	60
tccattaggg aaatttacgt aactttgttt taaggtttct aattgcacag tagttgtata	120
cctgagagaa gtgaatactt tacctgctta agctctgtga aagttggatt ccaatgaaaa	180
gatgaataca tttccctcac agactcacct ggactgattc ctgctcacc tattctttct	240
ttaaagaaga catgatcatt gtcttcaggc actattattt aatttatctt ctattaagaa	300
ttaactgttt tgttcctctt gattcacaga aagaaacaga ggtaaaggaa cggctctgtt	360
ttgacatccc taatatattac ag	382

<210> 301

<211> 577

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (9) .. (9)

<223> n=unknown

<220>

<221> misc_feature

<222> (344) .. (344)

<223> n=unknown

<220>

<221> misc_feature

<222> (541)..(544)

<223> n=unknown

<400> 301

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aagcctgang ggttttgcag ggggatcctg ggagactggc caagcacagc tgtaggtacc      60
catctttacc acaatgggat cagacttgct cttacttatt ttatattttg gactcccatg      120
taagttttta tttgtgcaag gggttccagg ctaagagttt gaagacaagt gaatttgtga      180
tttgcattha tttcctttca tccagagacc aaagaagctt tgacaacaat gccctagctt      240
tccttcactg gtctttgagt agtcctaagg agggataaca ctaccattgc ttttgagcaa      300
tgaatttctt ctgagaacta agtcccctgt caaaaatctg aganacacaa aaagaaactt      360
cagtaatcac ctttgctatg gttcaagaat tcctctgtaa atatagggat gtcaaaaaca      420
gaccgttcct ttacctctgt ttctttctgt gaatcaagag gaacaaaaca gttaattctt      480
aatagaagat aaattaaata atagtgcctg aagacaatga tcatgtcttc ttttaaagaa      540
nagnataggg gtgagcagga atcagtccag gtgagtc                                577
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<210> 302

<211> 368

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (2)..(2)

<223> n=unknown

<220>

<221> misc_feature

<222> (97)..(97)

<223> n=unknown

<220>

<221> misc_feature

<222> (326)..(326)

<223> n=unknown

<400> 302

tngagacacc atttcctctg ctctgaagg ggacctggac ccagaccctt tctctgcac 60
aaccagctag ggaaggaggt gctgtttact gggtggnagc tgtgaccag aactgccga 120
tgcccgatcc gaggtccct gttgaatctg aaagccagcc ctaggaggtg gctattatcc 180
aattttatgg gtgaacactc ccagctatcc aggtcatcc agggaccaa cgtcagagta 240
gagatttgag cccaggatcc ctgatcctga gatgtctctc ttctccttcc atccatggtc 300
actcagacac acgaaccccg ggcgancact gactgagggt ttgcgttgta gcaaaaaagg 360
gatgggag 368

<210> 303

<211> 67

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (11)..(54)

<223> n=unknown

<400> 303

gttaggataa naannttaca ntgattgant tntttcattt agttacatca ntanaatttt 60
tataaat 67

<210> 304

<211> 488

<212> DNA

<213> homo sapiens

<400> 304

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cccttccac tgccgtgctt ctgtttccct tctatgaagt gaacacctgc gggcctgcct 60
ctccacggca gcagatccat atgtcagagc tctttgaaa ctaaagcgca gggcacctcc 120
agggaatagg tgttattgat agaagtgggg cgggggcagg agtgaggctt cgcccathtt 180
ggggccctct ctctttggga aaggagggtga tcccaggcgc aaggcgcaga tcgataacct 240
gcatattggg gtgcgcgtca gggaggacac cgcagcaggc gcctttcctc cctccccacg 300
tcctgagtca gctctgcgcc gctggagcga aggccgggcc ccgctggccc actttggggg 360
aaaacgggtt cctggcatct cgcgggcgcg gtcgttcgcc ccgcatctgg tcaggacttc 420
gcccccggt agatggcttg ggtgggcttg tacagccctg ggaagcgatg ccctgtctga 480
aagtctct 488
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<210> 305

<211> 312

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (147)..(301)

<223> n=unknown

<400> 305

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cgcatacctg ggaggcactg tcctgacagc caaccaagta tgcagaggac ttcagacagg 120
gcatcgctc ccagggtgtg acaagcncac ccaagccatc taccgggggg cgaagtctg 180
accagatgcg gggcgancga ccgcgcccgc ganatgccag gaaccggtt tcccccaaa 240
gtgggccagc ggggcccggc cttegtcca gcggcgcaga gctgactcag gacgtgggga 300
nggaggaaag gc 312
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<210> 306

<211> 321

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (311)..(311)

<223> n=unknown

<400> 306

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agcatattca acatctggta tcaacaaggt aatgtttaac cttagactag ccaaactagt      60
gatgacctgc ttccatgctg catctgctgc tttttgtggt gatgggactc agaaatcatg     120
agaaaggtct tcagtgatcc atgactgcaa caaattcttt tcctaattgt gccgtatatt     180
atgcccctca atacaactta ctaatctctg cctcagtttc tccatctgtg aaagtgggtg     240
aatacttata tacctccctt gaatgttggtg aagattagta tatgttggtg aagcactttt     300
aaaataaaga ntgatataaa g                                             321
```

<210> 307

<211> 283

<212> DNA

<213> homo sapiens

<400> 307

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catatactaa tottcacaac attcaaggga ggtagataag tattacacca ctttcacaga      60
tggagaaact gaggcagaga ttagtaagtt gtattgaggg gcataatata cggcacaatt     120
aggaaaagaa tttgttgcag tcatggatca ctgaagacct ttctcatgat ttctgagtcc     180
catcaacaca aaaagcagca gatgcagcat ggaagcaggt catcactagt ttggctagtc     240
taagggttaa cattaacctg ttgataccag atgttgaata tgc                                             283
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<210> 308

<211> 468

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (303)..(461)

<223> n=unknown

<400> 308
gggaatacga gcttttgaggt cagaaaaaga attggaagaa ttaaaaaaga gaaatcttga 60
cttagaaaat gatataattgt atatgagggc ccaccaagct cttcctcgag attctgttgt 120
agaagattta catttacaaa atagatacct ccaagaaaaa cttcatgctt tagaaaaaca 180
gttttcaaag gatacatatt ctaagccttc aatttcagga atagagtcag atgatcattg 240
tcagagagaa caggagcttc agaaggaaaa cttgaagttg tcatctgaaa atattgaact 300
ganatttcag cttgaacaag caaataaaga tttgccaaga ttaaagaatc aagtcagaga 360
tttgaaggaa atgtgtgaat ttcttaaaga aagaaaaagc agaagttcag cggaaanctt 420
ggcctgttag agggctctggt agaagtggaag agacaatccc ngaactgg 468

<210> 309

<211> 370

<212> DNA

<213> homo sapiens

<400> 309
gatgaagcag gttatactat ttttcatcat gctgccctgc acaacagagt ttctattata 60
tgtcaactgt gcaatgctaa cttcaagggtc aaccagaggc gctttgttac gttcagccaa 120
ggtaccataa agtttttttaa cctaaaatgt tggtatttta tttaccctta ctcagcatta 180
ggaatgcacg ttgatttttag agcagggttaa aatttggtat taactagagc aaagttgagg 240
tttttgtttc atttatctaa gaaaggcttc ttttagtttt ctaagtatca cttatagcta 300
gcttatatgg ttttatattt gctcattgtg tctccttcat ttgagtataa gctctataag 360
agggcaaaga 370

<210> 310

<211> 456

<212> DNA

<213> homo sapiens

<400> 310

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agatcctctt ctctgacgtt ccaaagacta gattctgtgc aggtcactcg cccttcagtg      60
tgctcatttt attgttttct tcaaacaggt tgatgcactt gataaggcca cagcttcttc      120
ttatcttaac cttgtttttt ggtaaactcg acagtgcaaa gcaaaaggat taattccttc      180
ttctatactg ttatgtttta ctaaggaaat atactaaatc tgttttgcta atattagaaa      240
aaacaaaaat tgaattggat tatttcatag caaaggatag gtgaacgtaa tcaagtcttc      300
ttgtgatgcc tgaatctagc cttcaagtta taagacgtaa gcgtgaattt ttcttagact      360
gataatcatc atgattttga taagatcatc acatcatgat cttaacaaaa cctgggaatt      420
agggagaaaa aggaaaatat acagtacaaa tcaact                                456
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<210> 311

<211> 247

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (4)..(4)

<223> n=unknown

<400> 311

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agtngcaata gtaaaagaac tctgatgcat cccttaccca gactcatcaa tggtttacat      60
tttgctccat ttgcttttgc atcatcatcc tccctccctc tccctctttc tctctctcat      120
atgtatacac acttctgtgg gatccatttg agagtgtatt tttttacatt cttttaccta      180
accacagctc aaaacatcag tattcttgac tattctaagg cagatttatt gtcttgggtct      240
taaaatg                                           247
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<210> 312

<211> 344
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (75)..(75)
 <223> n=unknown

<220>
 <221> misc_feature
 <222> (213)..(339)
 <223> n=unknown

<400> 312
 ggcaactatag ccctagccac aggetgaagg gaccatgtgc ctgggcgctc ttggtaaate 60
 ggaacatgtt tgcgnggcag ggaaccaaca gccgcgaccc gctgcagacc ccagtgtgga 120
 acttcagtga gggtccttgg gggttgcaagc gacagaaaca caactcagac tagctgcaga 180
 ttagaaagag aatatacttc ctctaggatc tcngtgctga naatgtacca ccantttnac 240
 ancgccgatn gaaanggtgt gtttcctctg nanatccata tgccaacata tgggcatgga 300
 ttactccagt ttaggacaca tgcccaaccc ttganccanc tctg 344

<210> 313
 <211> 457
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (16)..(16)
 <223> n=unknown

<220>

<221> misc_feature

<222> (148)..(148)

<223> n=unknown

<220>

<221> misc_feature

<222> (384)..(390)

<223> n=unknown

<400> 313

ccctctcatg tgccanaccc tgtactaaga gttgaaaatc cgctcatcag ggtgttggtt 60

ggacaatcta acgtccttgc tttggagatc cactcgggtga ggtccttgga ggggtcaagc 120

gcagacctct gcttctctt cgtctagnca atcacagaac actccccacc agaggtggct 180

caaggggtgg gcatgtgtcc taaactggag taatccatgc ccatatgttg gcatatggat 240

gtacagagga aacacacct ttccatcggc gctgtgaaac tgggtgtaca ttctcagcac 300

agagatccta gaggaaggat attctctttc tatctgcagc tagtctgagt tgtgtttctg 360

tgcgttgcaa cccaaggac cctnaactcn cgtccacact ggggtctgca gcgggtcgcg 420

ggctgttggt tccctgcaag gcaaacatgt tccgatt 457

<210> 314

<211> 245

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (82)..(241)

<223> n=unknown

<400> 314

gcttagttgt ttgggtcatg gattcccttt gtatctacct gcttctgcct aatagcaact	60
agctgttctt tcctcaact cnnnnnnnnn nnnnnnnntt gcagttttgt tttaggatat	120
ctggggact tcaccagtc ttgtgccacc ctgtcagctg nagctcttcc tcnagcnng	180
gaatngctna aggttccan ntcaaantcn tgagaacaag ngaaacgnan gggntttcttc	240
ntttt	245

<210> 315

<211> 420

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (2)..(408)

<223> n=unknown

<400> 315	
anttttggca tattactagt attaattata ttnttaatgg nagtaacttc attnaactaa	60
gctcanaaat tagccatcaa atccattnat cttgtatttc ttatcttggt gaattcttga	120
tccaccttga ctctgacat tcntnactca cnaggcctng atatatntaa taaatcacca	180
tttctgctgg tgcncagttt attctaactc aaatnanctg ntgataggca ctntctaaagg	240
ggcaaagcca gctgacngt tgagacccta ccagcnatca ggaacagctg atcgnaaaag	300
ncatggntct ttgantcaag ggcaatnagt ccatgnatcc tcagnncaat gtaggcngtg	360
gntcatata ncnaggaana anncccatat gtntctcttg ttctcannaa tttgaactgg	420

<210> 316

<211> 288

<212> DNA

<213> homo sapiens

<400> 316	
gagaaatggc agactcccta cattagcatt caggaacccc agtgacctgg cccattgtg	60
ccttctect tegtccattt cccatggcat ccttttctta gatgtcagtc tegtectca	120

tcctaaagtt gcccaattgc actggcttca gaactacaat tcacaggcaa ccctgtggag	180
gcattttttcc catctcttcc cctcctcct ccctgtcctc tccccctcct tgttgccctt	240
gtagccctcc tcctcctctt ttaacacagt ccagataggt cttcatgt	288

<210> 317

<211> 252

<212> DNA

<213> homo sapiens

<400> 317

ggaggagggc tacaaaggca acaaggaggg gaagaggaca gggaggatga gggggaagag	60
atgggaaaaa tgctccaca ggggtgcctg tgaattgtag ttctgaagcc agtgcaattg	120
ggcaacttta ggatgaggag cgagactgac atctaagaaa aggatgccat gggaaatgaa	180
cgaaggagga aggcacaatg gggccaggtc actgggggtc ctgaatgcta atgtagggag	240
tctgccattt ct	252

<210> 318

<211> 234

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (225)..(228)

<223> n=unknown

<400> 318

ggagcatcta acgcctatga agcaaaagag gttgttaata gactctttga ggatcctgag	60
gaaaactaaa gtatatactg tgaaaacttt gagaagataa tacatatgtt cacgtcaata	120
tacaaccatt tggcacagct tcctgggagg aataataaga aaaacatgct ttggaggaaa	180
actcaagata caaaaatgaa tggctatgca taataacaat aaaantgtat tccc	234

<210> 319

<211> 517

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (228)..(228)

<223> n=unknown

<400> 319

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ggcttaagtt gaaatgttta gtggaaaaca ttggttcggt aaaagtagca gtggatctac 60
agctcttttt tgagaatgaa ttgctattat gtttgctgtc tacactgagg tgtggcatga 120
agcctttctc tcgtctcctt tataccttgg tggatctgtg tttccggaca cttttccttt 180
tgaaagttga gatcccgttc agaggctgac agacttgtcc ctagaagnta gggggcataa 240
atatgccaaa tgcaaaacca caatgatttc tttgattaca gggaccttgg ggccagcttg 300
cggtaagaac ttgccttttag aagatccttt ggttcccatc agtgtctccc tctcctcaaa 360
gggatggcag cccagtggac agtgggcaca tgaccctgac atcgacagac tcccacggga 420
ggtaaagctg ctctgtcagc gtcgccccag acagacgtgc acctttctc atcagcccga 480
acctggcctc catccacacc ttgtgcaaca tgtggat 517
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<210> 320

<211> 582

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (134)..(134)

<223> n=unknown

<220>

<221> misc_feature

<222> (517)..(568)

<223> n=unknown

<400> 320

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gctctagggg ctccaggcat aaactcaact gccaaacaaa tacagttttc aacaggagat      60
ccaatttac caagagagtg ttttttaaaa aaaacaagtt aaagatgaac acaactccgc      120
acactttag cacnttcagt agactgttac ccaacactta tatgcactca aagatggctg      180
cagaaagtca gagactaaga atgtgcctgc cgctcagtca ccagccatgc caacagacca      240
gttttaattt cccaaataga agatgagggc agaaacctga ttaaaacaaa caaaaagtaa      300
taccaaactt ggtacattac taaaccaaga gctgaagcta gaattcattt ggtgaccttg      360
agtttatgac ctctggcag caagtgaag ttcattgttt atatggctgc ctcacattaa      420
agtggctgct gctcattcac acagtctcca aaagaaaggg caagggcaag gactgcggac      480
agcttcacgt tccccttgga aagtcagcac gccagtngng agacgtggnn aggagaagca      540
catgtnagaa ccaggaatga cctttctnat tacagccaca ct                          582
```

<210> 321

<211> 475

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (207)..(207)

<223> n=unknown

<400> 321

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ctataggcca cgctgtagcc ttagatactc taactcgtga aattttcatc gaccgtcgtc      60
catagggcaa ggcacgcttc tgccctctgt gggacagagt tgtcgatgat tataggtagc      120
gatacccgct tcagcctgtg ttaatcgggg atgcagcccc ccacccttcc tgccgtgggt      180
ctaccagacc tgctgoggac gcctgancca ggtgcgtcac cccacctgg gctgaccagg      240
```

ccaggacttc gtcgtccgcg ggacgctggg gggcgctgc cgactggcac cggcggctag	300
ctccgcacga atgggaaatc cggggctccg tcgccaacct gttactgctg cagaacgcca	360
ggaagtcagc ctgatccac agatttaggg taaaatatcc cggggggccg aagtggaaac	420
cggagttgcg tcattgctcc caaccgatat cacttggcag cgaacgggct gacca	475

<210> 322

<211> 383

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (30)..(371)

<223> n=unknown

<400> 322

gccagtcaag caccacaaaa gtgacttctn agtgttcaac ctctttcaga ggctcatggg	60
acttgcagan aatgtcccaa ggtattggtg gttggnaatt tcctcttatg cttttcttcc	120
cacaagaatc accgctanct ttcccacat gcttngggca aggggancct tectannact	180
ttcagtacag gtagngaatc catccatcag actggcaggn ccnctanncg ggcacttont	240
cngttttctca naataaatgg nccnttcccn agttcaagnn aacnctatgc ctctcttctg	300
tcnnnnntgt aagtctnccc agaaagtngc natgntagnn ccagaatgna ctgntgcagt	360
ggcttagnaa ncttcactgt tgg	383

<210> 323

<211> 423

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (47)..(47)

<223> n=unknown

<220>

<221> misc_feature

<222> (403)..(483)

<223> n=unknown

<400> 323

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gtcttgcatg ggctcttct tttgtgcatt tttccctcca gcagggnctg aattattcaa 60
acgtagtctc atgtctggat tggaacaaat ggaagagctg aggacaggag tgacaggagt 120
tctgcaggaa ttggatttgc aactcaaaac caaaggctcc cactgctgc aagatatttc 180
tgcagaaaga tcaccaaag gagtacaatt ggagagaagc aatactgcag agaaactgta 240
tgactctaac cattctggaa aagtcttcaa tgaacacca tttcttatga ctcacatgat 300
aactcacatt ggagagaaaa cttctgagga taatcagagt gggaaaagcc ttaagaaaga 360
actttcctca tagtttttta caagaaaagt catgctgaag ggnaaatgct aagtgtggtt 420
aac 423
```

<210> 324

<211> 465

<212> DNA

<213> homo sapiens

<400> 324

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ctagtaagat ttggaaactg gttgaaggct ttttcatggt taacacactt aggcattttc 60
ccctcagcat gacttttctt gtaaaaacta tgaggaaagt tctttcttaa ggcttttcca 120
ctctgattat cctcagaagt tttctctcca atgtgagtta tcatgtgagt cataagaaat 180
gggtgttcat tgaagacttt tccagaatgg ttagagtcac acagtttctc tgcagtattg 240
cttctctcca attgtactcc atttggtgat ctttctgcag aaatatcttg cagcagtggg 300
gagccttttg ttttgagttg caaatccaat tcctgcagaa ctctgtcac tcctgtctc 360
agctcttcca tttgttccaa tccagacatg agactacgtt tgaataattc agaccctgct 420
ggagggaaaa atgcacaaaa gaagaggccc atgcaagacc tcgag 465
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<210> 325
 <211> 508
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (483)..(483)
 <223> n=unknown

<400> 325
 ggcattttgtg aggagggcgcg aatcaagtta gcgggggggaa gagtcttaga cctgggccagt 60
 cctcaggggtg agggccctga ggaagaactg agggacctcc caccatagag agaagaaacc 120
 ccggcctgta ctgcgctgcc gtgagactgg tgctccagga accaggtggt gacgaactgg 180
 gtgtgaggca cacagcctaa agtcagcaca gcagaggagg cccaggcagt gccaggagtc 240
 aaagcctgtt ggatctcatc atccatatcc ctgttgatac gtttacctgc tgctcctgaa 300
 gaagtcgtca tgcctcccgt tccaggcgtt ccattccgca acgttgacaa cgactccccg 360
 acctcagttg agttagaaga ctgggtagat gcacagcatc cccacagatg aggaagagga 420
 ggaagccttc ctccggttc tttccacttt gtacttagta ttttccccct cttctttctt 480
 canatcctct tctctgattc ttggtggt 508

<210> 326
 <211> 117
 <212> DNA
 <213> homo sapiens

<400> 326
 tggtcagtag tttcatttcc ttgtcctgct tattcttttg ttcttgaaaa ttatatatac 60
 ctggctttgc ttagcttggt gaagaaagta gcagaaatta aatcttaata aaagaaa 117

<210> 327
 <211> 281

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (15)..(273)

<223> n=unknown

<400> 327

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atctgattca ttagnnatct aatcttgcnataataantgg gtgcattaag catttgtagt 60
atattaagcc tgggagccng aagtttcttt ncagcgttct tattaagntt atnatgnnng 120
aaacttttca aaatcnttaa tggnnaatga tgtcccaatt cactcttttc tttttgantt 180
tagatgggna atgtaaagtc ataanatcga taggttgact gtnacaacta tgtttactta 240
canagtgaac aggaaatgag aatgggtgat nnnngtctct g 281
```

<210> 328

<211> 242

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (77)..(237)

<223> n=unknown

<400> 328

```
tacatagatt tcacaatact atggaatact tatatttagc taaagtcaca aacacatttc 60
aacattcaaa atgatnggca tcnttancat tctaattctac aaagctcatg aataaagaaa 120
aatacaaaaa cctcaagttt tacaaaaaaa aaaactttta agggtacata cattnccaat 180
naaaccattt ctncagatn nnagggaata nnnnnnaggc ntaccactgn ctttttnttt 240
cc 242
```

<210> 329
 <211> 381
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (18)..(37)
 <223> n=unknown

<400> 329
 tgcttctgga cggaagtngt ggctgtggaa ggcgtanac catcctgcag acagacaata 60
 attctggaga tactgggtgga agttccaagt ccaataagac actcaaataat gagtacaaat 120
 gccttaaaat ggaattgaaa aactctttat tttcccctat catttattgg atgggtgggt 180
 ggggtatttt tttgtaattg cttttttaaa tattagttaa tggattaaat ttaattcttc 240
 agcgtaaaat ggtgaagaac tagcatatag ccattgatca taaactgact atcataaaat 300
 caaaacaagt gaaataacaa aatggacatg gtggctttgt ttaggtagag ccacaaaaga 360
 aaagcttgta atattttata t 381

<210> 330
 <211> 467
 <212> DNA
 <213> homo sapiens

<400> 330
 cgctgctttc cccactctct gtcccatgc ctctggggc tcagggtgca gtcaagccct 60
 gtctgtctcg aggttctctc ctccctcccg ttccgcagag ctgttctggc aggggcctgg 120
 agtccagagc cgcagcttcg tccctttcgg ggggcctcag atcgtctgc tgetgccctt 180
 ttcctctgga gatctgcgag aagggtgaac tgagataatg gatgagaaag catgttgaaa 240
 accacagccg gggcttttct ctaagggtat cgagtacgtg gttctcaggg atccaagaac 300
 agtgatggac aaggcaaagtg tgagccagta tggatcatcag tagctctata ttgattatca 360
 gccagatggc ctaaaagata cctgtctcaa tattactagt gtatttttca ataaaataaa 420

ccatcactat atgggtatct tcttggtagt cacagacatt ctatcga

467

<210> 331

<211> 547

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (375)..(544)

<223> n=unknown

<400> 331

gaatcagtag tcacatcgtc tcaaataaag cataaactgt agatttatcc aacagtaaag	60
tccatgatga aacaaagtga tacagtgatg agtgcccaa ttcttctgta agtgggtgat	120
ggtgtggcct acaataaatg ttttctgct tattattgca gggtaggagag agagttagaa	180
tgaaggcgaa gtttctacg cacataaagc tcagtgaagaa agcaattcca agagtaatgg	240
aaggaaaacg actctcgga attcagtttg aacactggcg actgagccca taaacatctt	300
tctggaatga ggtttgcaga agaaagcagc ggtctaacct gtggtagcct gtgactctga	360
cattaacacc agagnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn	420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnacac tagaccctct ggagcagaag	480
ctctgggggtt gaggcccgca atctgcgctc ccatgccctc cangcgattc cagcacaggc	540
tgangtt	547

<210> 332

<211> 404

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (87)..(87)

<223> n=unknown

<400> 332

```
atatatatac acatatgcaa tggagtaatg aaaatactat ataataaata taaaatggat      60
taaaactata taaaatagat gcatganatg gctacataga tatggatggt tgcatatagg      120
tacatttagc tggattaagt tagatttaaa tggccaata gagaactgtg catacaatta      180
cataggcaac cacaaatcaa ccctttctct gggctatcta aaataatcag gtactagacc      240
aaaaaatgac atgctgtctg ccttaacctt tagtgatgat ttgtaggaag aggaaggtag      300
gggctggtga gtggaaaaag tagtagagtt tgtgagggaa tgtctgtatg tctgaagaca      360
aagtctggga gattggtggg cccagaaggt gtgaatctac tctg                        404
```

<210> 333

<211> 407

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (20)..(400)

<223> n=unknown

<400> 333

```
gaatggtatg agaaaaccan atggtcttag natatatatn gnaacaaaa aattacaact      60
tgaaaaaatt ccgtatatga cntggganta ngnaaggca tggattnttg anttaacant      120
ctaacagatg cttcantata aacacatacg gttgtttgaa aataaatatt cagcgtcaac      180
ttntcccat agagaaagca actccacaga cctgccgaaa tcacacttng aatctactca      240
agncttgga ttgcctctta gcaantngtn cctcaaccat ttctcttata aacgtgtgta      300
ggacagnntc agngaacnaa agtgantca tgtntcnct atntcngaag antnagnaag      360
naggggnact aaattntng cagcaantc tatgaccann ggatgga                        407
```

<210> 334

<211> 522

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (173)..(329)

<223> n=unknown

<400> 334

```
gttggtggga aatccttttag atcattagtt atgcagcaaa attgcttggc ttttaataatc 60
atatgtactg gcttattctt tctgaaggta agctacttcg gaagcacaac tattgactaa 120
aaactaaacc ttcgaaagaa atgacagcat tgctagtttt ttgtgtgcgt ggnnnnnnnn 180
nnnnnnnnnn ncgtggggta ctgtattaag gttagtttcc aacaagaatt gatgtaatta 240
gaagaaattg acttccttac ctattgcctc tgatatttac ttgcttaaat ttttttttat 300
tggaatcca gaanaagtgg atttagagna caacactaac tcccacctaa tctatgacag 360
agatgtagaa gagagtacct gtgaaaaatg tgaaagtatc tgaaaaatgt aacctttggc 420
agcctgagca tagtcaacca gaaaaactat ctgaattaaa ataattggtc cataggtact 480
attttatttg gtccataagg attatttttc aacttttttt tc 522
```

<210> 335

<211> 566

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (22)..(555)

<223> n=unknown

<400> 335

```
acttcttcct ctcttatctc anattnnaga tagttatcaa gtaagatctt taaaattttt 60
tgnntnagct tctcctttat gcccaactgtc actaccatct tagttcatga tgttatcttc 120
```

```

agcctagatt atggcnatag cttactaatg attatccctc catcctaagt ataaagtggt 180
cttttaaann tgttactccc ctgcttgaaa tctatgatag tttttaagat aattccaact 240
cctaagtaca tacggtgctt tatgatctgg gtgcccactc agtttcatct tctgtctctt 300
ctataganca tgttctctac tgcacataaa atattatatg gataacatat ctttttctct 360
tccttacttg gaatattctt ccttataata tagcccttcc tttgtcttat ctgctcccta 420
cccttctttt atacctcttt aagcacatag tnaccattat ccanccatat atctaacatt 480
nacttatatt tctctttnat tagactacaa agctcctcaa cgagtaaggt taaaggtgga 540
aaaagcttca ggtancagta acctac 566

```

<210> 336

<211> 479

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (398)..(411)

<223> n=unknown

```

<400> 336
taatatttaa aatctagaga acatgaaaaa aggaagaaa acaaacctat tttaaagctt 60
acgtgactac tttttaatga gttcaggaaa aagatgatga aagttattgg gtattcccat 120
ggaaaagaga atagagatgg taaaacttcc tttctaggaa gttaccttct aggaagccac 180
agagttgcca tccttcttac tgtccagagg gaaaattcta gagttttctg aatttgcaact 240
cttttgactt tgaagcagaa caaattaagt ttcaactgac ccaagtccta aggatactac 300
caacctgctt atttaaaata gttgcaaacc atgaatttaa acacttccat aaagcctaata 360
tcactctcac caattcacia aaaaatgcc aaaaagcgtt taccacatgc natcactggt 420
ccaaagattt agagaggttt agaagagtga ttgtaaccac aggcttggcg ccatattgc 479

```

<210> 337

<211> 500

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (6)..(20)

<223> n=unknown

<220>

<221> misc_feature

<222> (409)..(485)

<223> n=unknown

<400> 337
tccttnanan nacttttctn gggaataaac aagactgata caataatggc ccaaactaat 60
acgtacaggg cttctatgcc ccatgaaatt gactggcatt aggccgtgaa atccgaggtg 120
atgataaaca cttgaaaggt ggaaagttct taagtgtatg actaaatgac tcaactggccc 180
gtgaaacatg caactatttt agcaaagggc tagtttctct tcacatatac ttaaaagcag 240
ttgcagtgag acttcagtgagg aggggtattat agtgcaaact aagaaagatc agctcatggt 300
taaaagaaaa ctgagtaaag gaaatctgca tttatggaaa ctgaaagctc taacactgac 360
tcattgaaga agtctcccgga agatttataa gtgtaatcaa caaggctant ctttgtgaca 420
agcatttgtc atccccgata taagaaaaaa caattattgg aaaacaaaan tgccacaggg 480
attgncccat tcccagtatt 500

<210> 338

<211> 490

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (15)..(53)

<223> n=unknown

<220>

<221> misc_feature

<222> (236)..(236)

<223> n=unknown

<220>

<221> misc_feature

<222> (341)..(341)

<223> n=unknown

<400> 338

```
aaagaattag tttanatttt aatttttcta ttttgctgag tgaaaangta tgncttttag      60
tggcatgtgt taacttgacc actcttgagg accagaagct tgtcacttgt gtatttttct      120
tagaatgtag catttgatac ttttaattgg aaatttggtg gtgcttatat cttgtttttac      180
atatgtatgg gttgctgacc agtcagatt ttttgtccat ttttcaggaa aggganaaga      240
taaaacagac ttggataact tttgtttga aattgtagaa gtataatgaa aaattacctg      300
tgaaggaaga aagtgatccc ctcatTTTct gatctcatat ntttcttatt ttccgtgtct      360
ttctcccttc tagtgtctga gagatttctt caatttcaa ctcttttact tctgtacct      420
atcattttta attttgattt aaacctttcc ctggagggtt tctatagtat ctggtctact      480
tcatggatag                                     490
```

<210> 339

<211> 424

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (16)..(64)

<223> n=unknown

<220>

<221> misc_feature

<222> (333)..(402)

<223> n=unknown

<400> 339

```
aaagcatgaa gaaganacaa tcatttataaa acaccanaga cccttacata gcaaaggtta      60
aganataaat taagactcct attgggttgt gtctgccagg gaggatacag gcctcattcg      120
ctccggtcct tgggttcccg gtatttccac tggatgtaat caaagatgtc tttttcacta      180
tccactggca ggggttctcc tgcaactcca gtgactccca agggacggat ggtgtactca      240
ttgattgtga aacccttttc tagggcatga gccctcatat tcttattgaa aatatcactc      300
ccagtgcaat agagaacacc acagtactac tgntctttgg gtatcaacct aaaaaaatg      360
gacagtagat acnttttttt accatgcatt tcaagtttag cnaatatagg actcctaaaa      420
tcaa                                          424
```

<210> 340

<211> 222

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (46)..(207)

<223> n=unknown

<400> 340

```
gtgtggggag tgtggggaag gcccaggctc tgtgtgcaga ggaggnaggn ccaggctctg      60
tgtggcgagg aggaaggctc aggctctgcg tggggagtgt ggggaaggcc caggctctgn      120
gtggggagtg tggggagncc cangctctnt gtggaganga gggaggcnca ngctctgtgt      180
ggggagtttg nggangnnca ngttttnttt gtggaggagg aa                          222
```

<210> 341

<211> 570

<212> DNA

<213> homo sapiens

<400> 341

```
atgttaggat aggagagggg gcagcaagga gctgtcatga ctgaccccggtgtgccttat 60
ttcttccag ggctgcactt ggggcgtggc ataccaagtg caaggggagc aggtaagcaa 120
ggcctgaag tacctgaatg tgcgagaggc agtgcttggg ggctacgata ccaaggaggt 180
caccttctat cccaagatg ctctgacca accactgaag gcattggcct atgtggccac 240
cccacagaac cctggttacc tgggccctgc gcctgaagag gccattgcca cgcagatcct 300
ggcctgccgg ggcttctcgc gccacaacct tgaatacttg ctgcgtctgg cagacttcat 360
gcagtctgtg ggcctcaggc gcaggacgag cacctggcag ccatcgtgga cgtgtgggca 420
ccatgttgcc ctgcttctgc cccaccgagc aggctctggc gtggtgtgag gggttgagcc 480
cctgcgggga gtgctcatgt ggacatcagg gcaagacacc cactccagtg cacaagacag 540
attgcgaccg ttgagccac tgagcagata 570
```

<210> 342

<211> 533

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (21)..(521)

<223> n=unknown

<400> 342

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agactgggaa ggttgccagg ncctgtagtg atgagcttcc caggaataga ccaacacaca 60
ggcaggagtg gccagacag nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nagaaaacaa 120
ccaagtgggt aagaggccca ggccaggctc agcagctgtg tccaggcatc agctccagct 180
ctgctctggg gaactggtgg aggagaaggg ctggccgggg cctcagtcct tacagggtc 240
```

cttctcctca tgcctacta tccctcatcc agcctgctgg gatccttggc aggtggaatt	300
cccagggctc tggatggctg ggctgagtga gcagaggatc gaggtctctg gagactccct	360
ggggaggtgg aggcctgggt ggtgtggggg tagcagcagc actgggggga atctggtcaa	420
gttccaggat ggggccactg ctcagcaggg cccctgtgtc cagggcaggc cctccacctg	480
cccaccacaa caacatggtg caataaataa agtttcaagt ngtaagtcag tgt	533

<210> 343

<211> 483

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (463)..(470)

<223> n=unknown

<400> 343	
gatttttctc ttttagattg tgtttacctt tttggagtga tttcaagtgg ggaagacaaa	60
atttcaaatt agattttcta tcaagaataa tttttcaaat tgtttcattt taggaagtag	120
tcatgccccca caagatgtca gtttgtcata tccccaacat catggttgga attcaagccc	180
tacctccaca tctcctagca ggtaatatatt ctcacttatt gttaagatca tttatcagga	240
attcttatag ggaatagcct caaaacacat gagtaaata tagtcttcat tattctctta	300
tctcttcatt ctgccgttat tacttgctt ttggggttgt tgttatgtat ctattctaag	360
gggtatagaa tgtgtctatt ctatagacaa acacattgta tatagtcccc ttagaataga	420
tacgtatata actatttggt gatttgtagc gacataacca tanccacatn tgtgtacagt	480
aac	483

<210> 344

<211> 361

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (305)..(305)

<223> n=unknown

<400> 344

cccaagaaat tctaagaggg aaaacttttt attttcctct acctaggatg cctttgaaga 60

ctccattaaa ggggctggaa gtgcttttaa tgccaacttt accaagaaat gtttaaacac 120

tgttaattaa tttcagctgg caagaaagaa caccgggagg gtacactttt tgcactattg 180

ctggctcact attccacttt ctagtatctc ttcatacca tccacttctc tccagctcat 240

ggcaccacct taatctaaac tatcaacctc atccatcaat agcttccaac atcaatgcct 300

tgctnccaaa agcttctctc ctgctctatt ttcaatcttg cccctccaat ccattctccc 360

a 361

<210> 345

<211> 603

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (46)..(46)

<223> n=unknown

<220>

<221> misc_feature

<222> (602)..(602)

<223> n=unknown

<400> 345

ctacttctta ggcacacaaa tagtgggtgt ctccctggaa cctganacaa aactatcagt 60

gctaccaagc cttgtaaaat agggaggaaa ctaatatctc ttgagtggct tctgagtgcc 120

tggtgctttc gcggctctct ggagagattc cttgccctga tggctttggt gtgtactcct	180
ctcccaggac ttcagcactg agattttccc aacccccctgg ctttttctca ccttggggtg	240
agttgatccg gcactaccac aaaccccacc atctgcaaac caaccaagat taggcagtat	300
gccctttccg tcttgcactg ctcttccaaa acttccatct gtatttctca caccctcagt	360
aagcaaagtg agtgtgcatg gacagagctg catccactgc tttctcccag cgggtgcagt	420
ctaattctgac acggggaaca ctaggagttt agcggaatct tcagccaccc tattaatgtg	480
ttacgcatta ggcattgtag tggaaactcc tctgatggct catgactata tgaacaggag	540
caatttgga tataacatgt cagctgtgga ctgggaagtg ccgtgagaga aaacactacc	600
tng	603

<210> 346

<211> 483

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (86)..(477)

<223> n=unknown

<400> 346

agaagggagg gcagttgccc atggaagggt aagtgaggca caatactatt gggttgcggg	60
ccaagtacac agggttgcac tgtganggaa ctgaggnggt tctgggaggg cctggtgaca	120
acaatggatt tggggagatc cacaaaggaa attttcattt cctccccagg ttagctattc	180
agtgggtgga ntatncagtc ttnttagcaa ngtcactgct ccttagcnac atcaacaana	240
gtgccaaagc tgangacaca gagnatncca tcattgtctt tngnttctct nnangcctct	300
ggacntggt ctcactgtga anngagccan gaaccaatna cgtcggaagn naagcctttt	360
catgtcngat tcnntgacct gcaaaactgca nnnatccan cnngctccag aaaaacacgg	420
cagttngaaa caagggaatg tgggtgttag gtgnaaaact gcngagctac gggctcntga	480
tga	483

<210> 347

<211> 530

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (33)..(46)

<223> n=unknown

<220>

<221> misc_feature

<222> (498)..(528)

<223> n=unknown

<400> 347

ttttaaacaaggagaaatgc cactttgaaa gantactgtt ctgacnttct ctttttaaaa	60
attccttctc ataattccta cctagaataa tgtgagtact taatagagat ttagtaagtt	120
tttggtgact ttatattctg acgcgcttta gtttacacca taaagcactg aacagttatt	180
tccaaagaag tgtaatatgg tagcatgctg tcagtatttt taaggatttt ctaatttgcc	240
aggtacctga gaggagaaac catgattatt acacttattt tctcccagct gtatctctta	300
gccagtgtct ggcataatac tgacactcac taaatgtttc atagaaatac aagagtaggc	360
ttttggttgt tttagtttgc agatacatTT ctgtttatga aaatgctcaa gttttcttga	420
gatacagatt ttttgataaa aggagtgtct aggttgata gaatctttca tttcactata	480
ttataaccag gtgattanag tgacaatttg anaccaaatt taaacacnat	530

<210> 348

<211> 513

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (29) .. (31)

<223> n=unknown

<220>

<221> misc_feature

<222> (307) .. (307)

<223> n=unknown

<220>

<221> misc_feature

<222> (427) .. (462)

<223> n=unknown

<400> 348

aacaatatat taatagagaa atagcacant ncttattcag cgcctaaatt tttacgagcg 60

aaaatatgaa atttttat tttt tatgcatagt ttatgtattg atccatgggg cttacaaata 120

gcaacacact cttgggctga tactatcgtg gatttttgctt aaattatgag ggcaggaaaa 180

ttttaaaatc ccacaggtca caactgaatc acattaactg gctgatttag taaatgaagg 240

gcaattctaa aatgcaaaat aaaaatggaa ttaaggcagc tttaaaagaa aataaaaactc 300

atccacncca aaatagtgtc acataattca ttacttaaaa agctctctgt ggagtataga 360

cataaagcca aaaataaaaa caaacattgc agttgtgatg cagcatcagg tgcttttact 420

tcagtgnatg aaaaataatg gtcacaactc aaatgaatgg gntttaatat gcatatatgc 480

accttaccag agatgtttgc taccaatgat atc 513

<210> 349

<211> 393

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (61)..(61)

<223> n=unknown

<220>

<221> misc_feature

<222> (287)..(384)

<223> n=unknown

<400> 349

```
gtgggtgtaaa tgccaaaatg aaaacaatcc taaattatct gttccataaa tatacctatt    60
naaattttaat tttatacaaa acacagactg ttaacataaa aattaagact gaagttatct    120
ttaaagtaat cagaatactt tttggtagtc tgcaacatac atataaattt actgtataat    180
ttctggtttt ttaatttgat ttttctgatt tttaaaaaat tagaaaaatg tgtttataat    240
ttgttatgag attttgaaat ttaaaatata tttagctgta attttannca ttgatatgtg    300
cntatttggt gtcacattca tgtatccatc cttttgcctt gnngttttca cttttatagc    360
ngtgcntcag tagtataaaa ggnnataaaa tgt                                     393
```

<210> 350

<211> 370

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (158)..(247)

<223> n=unknown

<400> 350

```
ggaagtcaac atttaataag ccatcatcca caattgatta aaaatgttta atccttaaatt    60
tgtgcatcaa tatectatga ctccaaattt tatttatcac tctccttcaa gtctgaagaa    120
aatgattaat ttgctaagtt ccacagacag tacagtcnca ctgncnnaac atttagtatg    180
```

atgtcctact ctcataattag aattaaggac agccagtatc aaactggcct gaaacctgat	240
tgtgttntcg gttcagaata cctgtagtaa atctgtaaat ccacaccaag acacaacatt	300
aaactagggt gtgtatatct tataaaaacc ttttcacagt aaaaatcaac attaaatttt	360
ccaaattcaa	370

<210> 351

<211> 363

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (256)..(256)

<223> n=unknown

<400> 351	
catgtttttt taatggaagc agagaaagca gtctcggacc tttgcagtgg ttcaggtgat	60
tagtgatggg ggtaggacc agggacgtat cgatggaggt gttgtgaagt tgcatattt	120
taaatataca tttcagagcc aggtgcactc gctgatacat tggatgtggc atattagaga	180
aagaagactc gaaggtggca cctagtcttg tgttctgagc ttccagaatg aggcattctag	240
aagccaggac ccggnggaag cacggaagga gcagtggttt attcagtctg cagaagcagt	300
gcctacagga ctgctgtgtg aaagaggaca catgtgatat gagcaggtga aaatcacaca	360
gca	363

<210> 352

<211> 352

<212> DNA

<213> homo sapiens

<400> 352	
tgattatcat attcaatttt aacagatggt ttccattaga tccctcaacc ctccaccccc	60
agtccagggt attagcaagt cttatgagca actgggataa ttttggataa catgataata	120
ctgagttcct tcaaatacat aattcttaaa ttgtttcaaa atggcattaa ctctctgtta	180

ctgttgtaat ctaattccaa agccccctcc aggtcatatt cataattgca tgaacctttt 240
ctctctgttt gtccctgtct cttggccttg cctgatgtat actccagact cctgtacaat 300
cttatcctgc tggcaagaga ttggcctctt ttcttgtctt caattggggtt tc 352

<210> 353

<211> 473

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (414)..(414)

<223> n=unknown

<400> 353
gttgctgtta tatatcatgg agatgggtgag gtcaagaatg acagaggctg accattcagc 60
agggtccacc atgtgaaggc cggggtttgt caccacattg aaagccacat ctcttgactt 120
ggttggtgaa cttaggggta acctgataga gtactgacca actcaaccta tcccccttta 180
aaccacagat agaaacaatt actctaactt ttgggtccct tatacatact tatgtcagag 240
cacatgtaac actttttttc actttattta catgtttgtc tcttattaaa tcagctccct 300
atgggtagga accttgtctt aattatcctt gaatcctcag catttttcac agggcatgga 360
acacagtaga catttaataa acatttactg actaaatctg agaggaagag gatnctctct 420
caatatcaga aaaactactt gccacacgac agttcggatc ttagtccact tag 473

<210> 354

<211> 423

<212> DNA

<213> homo sapiens

<400> 354
ctgaatataa acatgaaggc ttagcattca ttatatacaa aaaaattctt caatctacat 60
agcatcataa aagccaaata tgaaatactt atgttgctt tcaccaaca aattcagttg 120

atgatata	tttctg	aaaa	taatacat	cccaaa	actg	cagtaca	aatt	ttaaag	aaaa	180
ataaaata	cata	tg	tttat	att	ag	tttcag	tt	ttctgt	tttg	240
tttttg	caat	gaaaat	gtgt	tacttt	tataa	tcagaaaa	aa	atactat	tttt	300
agtggat	gag	atcatt	tgca	aatg	tttacc	tgaggaa	aatt	ttgagg	acat	360
caaggt	gatt	gggagt	ttaat	accagac	aga	aatact	gt	ccttgga	aatt	420
ttt										423

<210> 355

<211> 549

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (31)..(48)

<223> n=unknown

<220>

<221> misc_feature

<222> (458)..(540)

<223> n=unknown

<400> 355

gtttgt	tatt	gttgga	gaag	aaaagg	ctga	naccca	atta	tacctg	na	ctttat	tcg	60
accaag	acct	caaaag	atgt	caaaga	agcc	atttct	ccaa	agacag	caac	atctat	tg	120
aggcact	tttc	atattc	agca	gtctgt	aagt	ttgtag	gaga	aaacata	aagt	ggttaa	ttta	180
aaataa	tttt	gggctc	tataa	atggac	tttg	ttgcct	tttt	tggtgg	gggt	ggtggg	aatc	240
ggattc	agcc	catttc	caag	ggatag	tttc	ttcatc	tcag	acaact	at	ttt		300
tttaaa	agac	attctg	aaaa	ctttaa	ctcc	tgccct	tctt	ccgtat	taca	gttgtg	ttat	360
tccagaa	ata	ttgtct	actt	ttttaa	tata	ttagatt	tttc	attcag	atct	taaaca	tgca	420
aacatgt	gat	aggtag	ctt	tttaag	ggag	ttatcag	na	cactgt	atct	aaatgt	tagg	480
taaatgg	gta	gattcn	cttg	aagtgg	tatt	tcntgg	cag	acagca	ctgt	atcatg	ctcn	540

tcaccaagc

549

<210> 356

<211> 551

<212> DNA

<213> homo sapiens

<400> 356

agttaagtaa agtcagttaa gggcgggtaca catgtcagct tggaaatcaa ctcagttttc 60
acatgagcac tccattttct cccttctttg acaccaaca ccttattatt ctcttcattt 120
ttcattttat cagaaccgta ttttggggag aaaataatcc actttaaaag aggaaagtgc 180
ttacaacaca aaggcttata aaaataaata ttaaaataaa gaaatagatg tctattagtt 240
ggaaatcatt tattgcctct ataaaagttt aaataaaaac tctacaaaaa ttcacattac 300
agtctgatgt ggttttaagg tgacagtata tttcagaggt agtactagta aaatgggatg 360
caggattgct aaaatgaatt acttaacaag ttaatgcaa ataaaatttc agtgtggagc 420
aatatacact cagtatatat ttaatgaaa caattttaat tatatttgct tgaaaatata 480
actttactct tttttcccc tagcaaact gttccttaat caaagtttgt ttttcagcaa 540
tggtgtgttg a 551

<210> 357

<211> 560

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (46)..(46)

<223> n=unknown

<220>

<221> misc_feature

<222> (502)..(502)

<223> n=unknown

<400> 357

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agcaccagtt gatgctcaat atacatttgc agactacaga agttangttc atttagcgca      60
ttggcagagt gtggacgctc cacctgacac taccgccttc cctgcccctt tgcaacagtg      120
tctcttggct tctctttcac catgctctcc tggtttcctt ctcatttctg tgattgttgc      180
ctctgaactt ccttcaactgg ctcttcccc tcttccctat tctgtccct tcaaagtgg      240
gtgttcttgg ggttcaactga ccccggtttt ttctgtttgc caactctcag ttctgtctct      300
agccgagcct tcttttctga gcttgactct cttgctcagc tgctttttgg agatcacatc      360
taaaatcagg ctcaccatct ccccccagaat ttggcccaca ccgttttgag agttgacccc      420
ttgcaggcat cgggctaaac attgtctcag ttaatccttc acaactttat ggttgtagag      480
gaggaaactg aggcttggag angtagagca ggattgagcc ttctcacaca aatcaattct      540
gtggtctcca tcattctctca                                         560
```

<210> 358

<211> 305

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (3)..(159)

<223> n=unknown

<220>

<221> misc_feature

<222> (301)..(301)

<223> n=unknown

<400> 358

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canggagtgc taaaggngtg ttccagggca ggatgaannt cacttggtact atgtcagata      60
```

tggtgcaaga nacagagaga cattgatgga tttggagata gagtcaacnt gagnttgtga	120
ccagctcagg atggaggggt gggaagagtc agangtgcnc ctgcatttcc agcatgtgtg	180
agaacgactg gggggcagtc acaggaagac aggaaggata gccacctca ttcacgctt	240
agtctacaaa tagtcattag tatggaatgg actgtggaca caggccctaa ggatataggt	300
ntgcc	305

<210> 359

<211> 358

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (39)..(351)

<223> n=unknown

<400> 359

atagattaca aatataatac agatgcaatg acgactgcng tggccctcaa caatgtgcag	60
ttcctgggtcc ccatcgacgg angagtcacc aagctccagg cagtgtccc accagcagtc	120
tggaatgctg aacaacagag aatattgtgg aagattcctg atatctctca gaagtcagaa	180
aatggagggg tgggttcttt antggcnaga tttcagttat ctgnaggccc aagcaaacct	240
tctccattgg ttgtgcagtt cacaagtgna aggaagcacc ctttctgggt gtgacnttga	300
acttgttgga gcnnggggatc gattttcatc catcaagaaa aggtttgctg naggaaaa	358

<210> 360

<211> 318

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (310)..(310)

<223> n=unknown

<400> 360

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ttactttaaaa acacattggt atattcatat gctggataat tctcagtttg ctgctgctta      60
ctctccattg attttgggtg cataaattcc atgtttcatg gaatttagaa ttttgcattt      120
tctattttgg tttcaaaatc aaattggata cctttacata aaatgagtat atttagttcg      180
ttcaaagaaa cttcaacacc agactgctgt agggggccaa ctgagagttt gttgaatagt      240
aagaattttc ccatggtaaa acaaatacatt ttggacatct cttggtagca agcactgata      300
gaggagtacn aagattaa                                     318
```

<210> 361

<211> 463

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (426)..(426)

<223> n=unknown

<400> 361

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gggagagaaa ccctatgcat gcactgagtg tggcaaagcc ttccgagaaa agtcaacatt      60
cactgtacat caaagaactc atactggaga gaaaccctat aaatgtacag aatgtgggaa      120
agcctttacc caaaaatcaa accttattgt acatcagcga acccatgcag gaaagaaagc      180
ccatggaaga ggccacactc ggaagtcaaa gttcatggca cattagagag ctaatcagca      240
gtatctatta tggacactga aagaaagttg tgtcaatttt actcacattt taaaagtata      300
ttttgacttg tggtttaaat atggggagtaa attcagcctt tcttcttttc atctcagtca      360
taaccctaaa gctacgggag aaaaagcaga agtgtaatct ctgtatctga caaaattagg      420
agccanctgc aaccctaatt agagggtgca caggcagagg aat                                     463
```

<210> 362

<211> 502

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (21)..(49)

<223> n=unknown

<220>

<221> misc_feature

<222> (487)..(487)

<223> n=unknown

<400> 362

cttctcccaa gtcagtaa	at nngggcagct gtagggctct	tcacaaggna aagtcacctc	60
tcttccccca gcatgccata	actgttgctc ccatcagtag	actactttct aaaaatatgg	120
cttgtctgag tgactccttc	tggaggcccc agcctgtttc	tcctcagacc ccaaattggc	180
taggaaacat cctacctcct	acctgcccac gcactgttac	cactgttata totatggttc	240
cgcgcctcgg ggtatatccc	gaacctcagc taagagtcct	taccagtgtc gtcttgcacc	300
tgcagccttg agcactctca	ctctgaaatc tcctgcacca	gtgcttcatt tcctctgcct	360
gtggagccct ctcatagg	gttgagctgt ctctaatctt	tgtagatac agagattaca	420
cttctgcttt ttctcccgta	gcttttgggg tatgactgag	atgaaaagaa gaaggctgaa	480
tttactncca tatttaaacc	ac		502

<210> 363

<211> 398

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (8) .. (371)

<223> n=unknown

<400> 363

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gggaaccnta ttggcaatgt ttantnctnt ngtaatnnat gtcngtttga aatctgtctg      60
tncancttgg gttacttgaa gatgctttga atctggnatg gctcttactg .catatcatgg    120
ggcagctttg agtacctggt agtctcanng ttttggnaaag ttcngagact gctgtnggta    180
tactgaggaa gatctgtatt cactgattac acaagccagg agcgacaacg aggattaacg    240
tggttaccta gtatgcatgc ctttctggtg tattganttt nnagaatatt tctnnaattn    300
nataaanacct atgagcntat tcttgggata aattgattta tactgnagac tccttgcaat    360
gaaacagtag nattctgagc atcaccctga gcacagat                                398
```

<210> 364

<211> 448

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (19) .. (19)

<223> n=unknown

<400> 364

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caataaccta agctcagtng catgaatcca cactgcacat tttattagca gtgtaataat      60
tttctaaaag attagtatca cagatgcact gatataagaa tgctttgaat tctttgagtt    120
ctccagagggc atatttttaag cgtcagatac aaactttact tttccaaata atgaaaacca    180
aggcagtttt cctgaaagta agagcatctt taattaattc taggtaagcg attctgaagg    240
ttagccagaa gaggcaggta taccttaggg gtagtggata atctccaagg tttggtgagt    300
actagcgtgt gtgagtctgt gtgtttgcat actgtttctg aaaatatttg ggaaaccttg    360
gggagaatcc cctccattg agagttgcat cactgggagc tttcttacc aggagagagg    420
atatggagggc agaatttagg gtgagact                                448
```

<210> 365
 <211> 389
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (79)..(386)
 <223> n=unknown

<400> 365
 taaatcttca actttgctga attgcttatt gaagaaaatg ctgtctctaa acataacatt 60
 actggcagct ggaagtgana cttacacatt atgcttcatt gtatctgaga gtcattgaagt 120
 ttacaaagac atttctgggc ttattctgat aaatatcaca tgctagtatt tcttacattc 180
 ccatttactc agtggtccct acttcctaaa ggagggaata gngccgtcga acagttgtca 240
 aattnncttc acaaacagct tgggtttcct taatggatga natcaccctt cgttgatgga 300
 tccatttgca caggnatttc tagatcatct canggntcnn actctgggtc ccacctcctg 360
 ntngctaaa aatggntagg tatctntat 389

<210> 366
 <211> 399
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (160)..(394)
 <223> n=unknown

<400> 366
 aaagtatat ctcaaatac cccctttaag gtacgtttca gggctcttgt cctaaatgga 60
 ttttctatta aatatcaggc ttttttttct taatgaagta tatataatta tgaatcgttg 120

tccaaaggat gtatttggtc atctgccctg aatgatagan caatgaatga attaaaagga	180
actacattta gaaaagcagg ataagtatga ttttagaaaa cttgaaggan gaaaacaaga	240
aagaagggca cttgtagaga tgtgnagggg cagaaaacag aggtgaaagg gtttcctgna	300
cccangtctg tagtaganan cactactgag ttanagttct ctaagcccat ctgggatcct	360
ttggtgacag antnttgctc tagtggnnta tganatcac	399

<210> 367

<211> 428

<212> DNA

<213> homo sapiens

<400> 367

taatttgtaa ttctagcaca gtcagggtacc acagttacaa gagttctatg ttccactgaa	60
taaatgccac tgaaaaacca ttgaactcaa ccacttcctt ccaattttct agccactgga	120
gtagaaaaat actggaatac agtagaacag aggggtcaag acaagttctg gtttgtcaat	180
aactaacttt gaggtttcag gcacattgct ccaactctc tgagtctcaa agccctattg	240
gtaaggtggg ggtggcaata tctatcactc agcactattg tgaaaattta aacaacataa	300
ttagtataca ttaccagca cagtacctga tccattatgg tactcaatac accttaattt	360
cttcccttta gttcccttc ttccattaag agacccaaag gcacaagtta agtggaatca	420
tttctgag	428

<210> 368

<211> 394

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (362) .. (362)

<223> n=unknown

<400> 368

gtgctatcct agaatcaagg atttcagcaa caatgcctct gttcaaactc ccagaaattg	60
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atgatgcaat gcgcaacttt gctgaaaaag tgtttgcctc tgaagtcaaa gatgaaggag	120
gtcgtcagga gatttcccc tttgatgtgg atgagatctg tccgatttct catcatgaga	180
tgcaagcaca catattccat ctggagactc tgtccacctc cacagaagcc aggagaaaaa	240
agcgtttcca aggacggaag actgttaatt tgtccattcc actaagtga acatcttcca	300
ccaaactgtc ccacattgat gaatacattt cctcatctcc aacctaccag accgtgcctg	360
antttcagag agtgcagatt actggtgact atgc	394

<210> 369

<211> 534

<212> DNA

<213> homo sapiens

<400> 369	
gcaattaaat tgagttcata acaccagggt tcatagcgat aggccatgcg gatttgggct	60
acatttgtcc tccggatata atttccagca gggccttcct caaggtaatt gtcgcccaga	120
aactttactt tctctcatg agaaattcca cactgcaaga cactgttcct tgccacttcg	180
cacatatcac aggtgctcag cttgaagact tgtgcagcaa tagcatatc ttccattagg	240
ggctccttgg taaagtggaa ttgcattggg tcatctgtag acagtgagat cattagccct	300
ttctgaagga aatccaaaaa aggatttttg gcatactcta gaaataggct attgttactt	360
agtggtgaca tggcgatggg aatttgggct aagaaaaaca agtactgtag cacgggactc	420
tttttaaat taggccatga gagatatcat ctgctatcat gaatgctgtc atgagatggg	480
tgaaggctcc agcttctcca cagtgaaggc cggaacagaa cgtattcatg gcct	534

<210> 370

<211> 265

<212> DNA

<213> homo sapiens

<400> 370	
ctgttcaagg ggattccgcc ccccatgct tattcttttg agctctaagt aagacttaaa	60
gttctttttg caagcaaaat ttcctcactt ttatagggtt taaatgtgca aggaaagttg	120
cagaaaataa aggagttaag tatttatgcc tgtaaagttg gaaaaaacat tgtattttac	180

aaccattgcc acattggtgt ctttaccttc aaaagtagtt tttaaaatag taatatcttg 240
gcggaagtca atatctgatt tttct 265

<210> 371

<211> 110

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (5)..(110)

<223> n=unknown

<400> 371
ttttnagnna accaaagggc aaataaaaaac tggttattaa agctttctaa tacttgaagg 60
ccacnaggnt naccaggntn aagaacctcg atnntgaatt atacntntgn 110

<210> 372

<211> 436

<212> DNA

<213> homo sapiens

<400> 372
tttcagtgtgta gtgggttggtc atgggttaaa acgttcagat tgtcatgggt taaaacgtga 60
attggatatg aggaaagtga gtgcacaaag atagttttct gaaagtttta cttggaagag 120
gacaaaaaat tgagacgaca gtttgaggag gatgaaaggt caagaattct aagctagtga 180
taaaaatttc gtcaacatca atgaataggt aatgtaaaca cattaatcct gggatggatg 240
tgagaagagc aaagaaagga atcctggggg aatatcagct ctaaagggtg agtagagaag 300
gaaggagtga tctgagaggt ggaaggagga gtaggaatta tcatagaaac ttttaagcttc 360
ttgagggtt gtgactgtgt catgttcac attttatctg aaagttctta tcaacaaagt 420
agctttcagt aaatat 436

<210> 373

<211> 499

<212> DNA

<213> homo sapiens

<400> 373

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cagcctgccc ctctacctac tatcttgtat ctcctatga gcaaagcttc aaaaagagca      60
aagctttctg aaaacaatgt ttgcacttac tgtctccact ctcaacaaat atccacgctt    120
agtcctcagc aacctggcat ttatttctat tatggagact ccactgaagc tgttctacag    180
aagggtggcaa tcagctgctt aacaccaaaa tcaagggaca cttccctgtc ctcatattca    240
ttcaactgtg ggctacattt gacattgcag atggctctta aaatttttat cttcatttaa    300
taaatattta ctgaaagcta ctttgttgat aagaacttca gataaaatga tgaacatgac    360
acagtcacaa gccctcaaga agcttaaagt ttctatgata attcctactc ctccttccac    420
ctctcagatc actccttctt tctctactca acctttagag ctgatattcc cccaggattc    480
ctttctttgc tcttctcac                                     499
```

<210> 374

<211> 417

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (76)..(86)

<223> n=unknown

<400> 374

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gttcattgta atgaaaatcc atgttggtta atagaatgcc atcctttacc tacttttgct      60
ctgtatggac gttttnctnt tcatgntcta gtgagcttcc cctatatcat gagaagtggc    120
tatatttggtg caaatataca aatataggaa acaaagatt catacctgta ggcaatagtc    180
taacttgtcc aaaccacttt gcctttactg ctatttttat cccaatgcg tagatatttc    240
ccccaggcct atagcctttg tgaaggaaag caaatcatat ctcctgtata ttgacacgaa    300
tctgggttttc aaatgtcatt tccagatttt ttagttaatt gggggttgtc cttttccctt    360
```

aatgtgagag tcattttcct gtatatatttct gggatctctc aggggctggg aaggggg

417

<210> 375

<211> 566

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (36)..(547)

<223> n=unknown

<400> 375

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atgatcagta tggattgatg cnaagcagtt cgcattctat aattgccttg tacaggtaca 120

attctttccc aagagccaaa agaggatcct tgagaactaa cggaaaagcc taattacata 180

aatgtaaaat actgtttctc cctcattctn agataacnac aggaatgacn ggaaaggaag 240

gaggatgggt aaaagggttg aggagaagaa agaataagag aaagtatact aaaaatatgc 300

ctaacattaa aaaagttagt atgtgttagg tgcattgatcc ttcattcaata acatggaaaa 360

aaatcaaaat aacattacac cacacacaat tggcatatcc tattgtgtaa gcgagtgcag 420

agggtgaaca catcacaata gtgctgaaca cagaatcaca agtaatgtca aaatgataac 480

ttccaaccaa aaaaganaca atcacaggcc aattacttat atacaatcaa ccctaagtca 540

attntgntcc aaataaagat gtccac 566

<210> 376

<211> 324

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (27)..(306)

<223> n=unknown

<400> 376

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gatgtagata attattaaat tgtacanatg ggaaaattga aattcagaga gattaaatac 60
aatgnttgct ctgtgttaca ctgttagtaa gagagcaata catgaaccca agtttgatcc 120
tcaaaatcac gcttttaatt acttgatata tagtgtcttc caatattgaa tctagactag 180
ggcaaattcn cagcncaaaa cnanacttca atttagcant nntgtcgtgc taggacatga 240
ganggattan nattgnngac ncagcctcna tctnnaagta attcntaatt tagccaanta 300
tattanatat ctgtaatata aaac 324
```

<210> 377

<211> 488

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (138)..(482)

<223> n=unknown

<400> 377

```
ttacagattg acacatttga atttacttat gtaaccttga tgtttgctgc acatgaatga 60
aattatcagt ttgttccctt catcaaaggc actgaatatt taatgtacca aaaagacatt 120
aaacgttata ctcatggnat ttagctgcta agcattgtaa gtaaccgctg acatttctgt 180
taagagaata tttatttttt aagtgattaa acttggtgat tgcttttaac acatttagat 240
agtaatttat tcattttctt tattaaactt tgtaagctt tattcaactt tgatctttac 300
caaggaaaca acatgaccaa agtaccanaa anngtannat naacttgttt tttgaaaaga 360
gtntgtgaac aggtacatgg tacaacaaac tgatgggcan gcagtctatg tacttttcca 420
gttgtcattc taagtaatga cccaacttct ctatagggcc cagntatact atttcccact 480
angcttac 488
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<210> 378

<211> 366

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (318)..(351)

<223> n=unknown

<400> 378

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ttaagtagga aattgagagt agtagcaagt gagacttagg gggcaggtag gcagaaatca 120
gtgatggcat agccgcgcca ccatgaccat cctggccatt gtctcctgtg tctcctgctc 180
ctcgaggtct tcaaagtctc atgctgcctt ctccagcagt gctctctgtg atgggagggg 240
gggcacaggg tgggtttgtg ggtgattctg ctgaagccag ggagatgacg tctgtccaag 300
gacctcagct ggagccangc tccaggaagt ctgtggggga cactgacatc ntgggcatct 360
ccttct 366
```

<210> 379

<211> 530

<212> DNA

<213> homo sapiens

<400> 379

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aaaacaaaa acatctcaaa gcaaacaagg gaaagctccg caaacagcct ggcagcagga 60
aaccacgag agtttccccg taataggcgc ctccaggcgg gggaaaacaa attataaggg 120
tgatttattt ttatcttatt acaaacaggt attttccaaa ttttctatga agcacaagga 180
gatctttcct tccagaatac tagcaaacac aaaaaatttt attttgtgag tgcttaaaaa 240
gagaaaaacc tgaacaaact tgctctccac ccacgcaggt gattctccac ccacgcaggt 300
gattcttcac ccacgcaggt gattctgact tttgggcagt cgtcagaaga tcagatagaa 360
aacctgagta tcttggcggt agaatgagtt ggacagagag tggatgttgc cccgggggct 420
tcaggcacca taccggacat ccagcatctg agatgagtta aaacgcacag tggaggtgac 480
```

tttcgagatg agggtacact tacaacatac aagttgttta tggcgctggg

530

<210> 380

<211> 556

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (537)..(537)

<223> n=unknown

<400> 380

ggcctcctgt agaccggcgg gtgcagggca cggctcccaga gttaaggggtg tgagtgagac 60

tgctgcgggc aggggttggc ctatgccctc tgctaggggg agaggtggag tttgggtgtg 120

gattaatggg ttctgggtgt ttattttctt ttctctgagt agtgaggcct ccaagaagtt 180

gtagggacct gtttcttcca gacacattaa tatgggccaa aatgtgggggt ctcttcacct 240

gaattaattg gagatctttt gggttgaggc ctcaggcttc atttctcagg acttccaggc 300

ctactcccat tagtactgac cgtgaaacta ttttctgttt ggttactttt tacattctct 360

gtctaattgat ggcataacaa aataaattta aagattttgg cttgggtttat tattaggtga 420

agtgattttt tttaagtccc aggttataga tattatttca gcatagacac tttaaaaaga 480

gagaaaatac ctggaacaaa tcggaaatac gtttgctaaa ataactttat ttggcanggt 540

gttttaataa cagtat 556

<210> 381

<211> 497

<212> DNA

<213> homo sapiens

<400> 381

agcacacaaa taaccatttc attagctaag atacacgtaa tacagccaaa aataagtagt 60

agctttattg atcctctgtc tagtgatcag aaacaataat ataacatgca tcacatacag 120

tacacaatac tcccgatattt cctcaacagg aaataaatgt ccataatata gaggtttcca 180

tatattgttg catttataat actctgcatg ggtatgagtc atcctattta taaagtgata	240
ttgaatccac aaaatataag ctccaagagg gaagagtttg attccattgc atactattgt	300
gtctaaaatc taaataattg ctaaattgat acaataacag taatatatag aacaatgaaa	360
ttcagatact gttattaaaa acaccctgcc aaataaagtt attttagcaa acgtatttcc	420
gatttggtcc aggtatttcc ctctttttta agtgtctatg ctggaataat atctataacc	480
tggggcctta aaaaaat	497

<210> 382

<211> 548

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (426)..(535).

<223> n=unknown

<400> 382	
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gtaccaaaaa ggtcccatct atctaggctg tgtttgtagg ccagtgtggg actggcgta	180
agagaaacta gactcagggc cacatactct ccctttttgc ttctgtccat ttgttcattc	240
tctcagactg gctttttcca tgaagttaga atctgagcaa ctggcagctc ctaggtcata	300
tattcccaga tctgccgcta gctcttcagt aaaatgagga gaggtgttgg gtgagtatgg	360
tggtccttaa ttatttgtca agctttttcta ccttgatcct tttcctgtct catggaatat	420
aatatnaatt attgcttaat tcccctactt tctcccatct tgagtcttgc tttgtaactt	480
tatatnatcc atttatnctt tggtcactca natatttaag tatttnanat tctcnacttt	540
atttatca	548

<210> 383

<211> 179

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (53)..(175)

<223> n=unknown

<400> 383

cttctttacc cattcattaa acctatcatc tgtgaaatca ctgtaaaaat ctncacttct 60

gatatttgnt ataatggcat anaganaaac tgtaccctat tggggagcta aaattgtaat 120

aggtaacaaa tataattaac tgtcccaaaa tacagctnnc caancaaact tttntttt 179

<210> 384

<211> 562

<212> DNA

<213> homo sapiens

<400> 384

atttatttaa gcttcttttt aatagatgga tattaatctc ttaaaactaa ataatatatt 60

gaatatttag tggagaaact tttattatat aacagttgat gtcttttaaa atcttgtttt 120

cctagcagca aaattagaat agatagagaa tttgtattgc tgatatgcaa aacctaacaa 180

attatattta acctaatagg ctttcatatt ttggattaca actttcacac cataacttaa 240

tacaaatata cagacgtggc tgacatattc tacatagctg tgtggcttac ttgaaaaata 300

gaacagttgc ttaactggat gactatcaaa atgggtcaaca cagattgatg ggcttgagtg 360

tagcagacag cgggtatgca gatgggtggg tctgtaccgt ttgagaagag atggctgagt 420

ctttaaaatg atttcattgg aatggctttg gtgggtgtgc agtaaagggc atctattcaa 480

tctcaggtgc tgtgcagatg gcaaagccaa gataatatag aaaaatgaga aacaagtgac 540

tatttaaatgt acagtaatgc at 562

<210> 385

<211> 429

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (334)..(334)

<223> n=unknown

<400> 385

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tgtacttaat tctctcaagg agtcatgtgt tttaatgtac aggcactctgg atagggtttcc	180
tgcagtgaat aacgtcattt atttgtgatg cagatcatgc attactgtac attaaatagt	240
cacttgtttc tcatttttct atattatctt ggctttgcc tctgcacagc acctgagatt	300
gaatagatgc cttttactgc aacaccacca aagncattcc aatgaaatca ttttaaagac	360
tcagccatct cttctcaaac gggtacagac accaccatct gcataccgcg tgtctgctac	420
actcaagcc	429

<210> 386

<211> 555

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (48)..(48)

<223> n=unknown

<220>

<221> misc_feature

<222> (332)..(339)

<223> n=unknown

<220>

<221> misc_feature

<222> (522)..(522)

<223> n=unknown

<400> 386

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ctagcaaaga gcaaggaaag agagaaaaca acaaagtggc gaggcctca gagtgaaagc      120
gtaaggttca gtcagcctgc tgcagctttg cagacctcag ctgggcatct ccagactccc      180
ctgaaggaag agccttcctc acccaaaccc aaaaagatg ctgaaaaagc ctctctcagc      240
tgtgacctgg ctctgcattt tcatcgctggc ctttgtcagc caccagcgt ggtgcagaag      300
ctctctaagc acaagacacc agcacagcca cnmntcanng cggccaactg ctgtgaggag      360
gtgaaggagt caaggcccaa gttgccaacc ttagcagcct gctgagtga tgaacaagaa      420
gcaggagagg gactgggtca gcgtgggtcat gcaggtgatg gagctggaga gcaacagcaa      480
gcgcatggag tcgcggtcac agatgtgaga gaagtactcc gngatgaaca accaaattga      540
catcatgcag tgcag                                         555
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<210> 387

<211> 538

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (48)..(48)

<223> n=unknown

<220>

<221> misc_feature

<222> (289)..(314)

<223> n=unknown

<400> 387

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tcttgccttc aggtctcagg tcttgatatt cattctcaac ctcagcctaa gagttctaaa    120
ctcaagcaat agaatgatgt cagtgatttg cattaataac caaaaggtaa ttgcttccgg     180
aggcattttt gtaaccagga ggtagagatt ttcagtattc acctctgcat ggattacaga     240
ctatctgcaa aaaccggtgt atgaaatatg tctgattgta attttgtgnn nnnnnnnnnn     300
nnnnnnnnnn nnnnagatct gaaattcaga gtgtagctct gagacttgct tccaaagtca     360
tttcccacca catgcagaca tgtgtggaga acaggaatt gatagctgct gagctgaagc     420
agtgggttca gctggtcatc ttgtcatgtg aagaccatct tctacagag tctaaggctg     480
gccgtcgttg aagtctctac cagtactaca ccactttcct caccaacccc catcctat     538
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<210> 388

<211> 568

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (543)..(543)

<223> n=unknown

<400> 388

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tcaacatgcc gcttctgttc ttggaagagt taactgcctc gattctgcat aagagtccca    120
aacactgaga actagggtgt cttccccttc ctttccttcc aaaaaggcca gcagcctcaa     180
gcaagccaaa gtcctttcct cttgaatgcg tagtcttgtg aactcactg tcttcacaaa     240
ctcagcagct ggtggaagct ctctgaagaa ctgagacagg aggtggcact gctctgacac     300
catcctttga aggtgacaga gcatctcagg gcttggggga cgccagccgg actttgagag     360
gagacagaag aggtgcttgc agaggtattt caciaagatc agggctctcg cccaaaagtt     420
gacttctgct ttttcaaaca ggtagtcttc ttccacctga tgcattgctt ccacacaggc     480
```


cacgaggtca tcaactctctc ccaacagcca tcccagcagg atgggcagtc cagggggcaa 540
ctngtcccac tgctggagca gatcacac 568

<210> 389

<211> 557

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (2)..(48)

<223> n=unknown

<220>

<221> misc_feature

<222> (340)..(340)

<223> n=unknown

<220>

<221> misc_feature

<222> (421)..(421)

<223> n=unknown

<400> 389

anataacaat atttgcnatt tttaaaggta tttaataatt ganaaatnga ctcttcaagg 60

actacttgta aaaattgcag gaccttaaaa atgcatttgc tttttctatt actttagaaa 120

ttataattat atgcattttt gtatgccttt acaactagca ttatttggtc ccagccttcc 180

tttttcagct ttcattggtga ggtttttagtg tcattacctt ggcttctggg atgtttggaa 240

ataggcaata ctgtattaat ttctgctctt tagaacattc tgttcttttg atctagttta 300

ttgcttgata gacactggaa agcagaataa tgcttaactn cttttttttt gctgcttatt 360

ttataaatta atcttttgta agagatttct gacatcatca gcacacatc atatgtttcc 420

nttcagcggc atctggaggt agcagaagta gcagcagccc actggtggta gtgtctgtga 480

agtcctcccaa tcagagtctc cgccttggct tgtccagatt agcacgagtt aaacctttgc 540
atccaaatgc cactagc 557

<210> 390

<211> 441

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (87)..(87)

<223> n=unknown

<400> 390

taattatttt cacattaata tagatatttc cataaaccaa gaaaaactga gttattatac 60
atTTTTtaac agctaacatg atttganaat tttttattaa aaattgatca gaagctagtt 120
gaaattctca atgtaaatat aaaatattca ttacaattgt ttttcaaagt aaattcagat 180
ctaagcttcc tgaaaagctg tactatctca ttcataata gggatgacta agtacttgac 240
aactactttc taaagaactt aacaaaaagt gactatttga agattacatt tacaacagaa 300
aggccaacat tctctgcaga gctctcattt tatcatgaaa tgtggacaat caggaacacg 360
tggatgagtg gtatcaagaa aaagggcatt tcaaaatatt tccactttta ttaaagggtt 420
gacaatgaag attcataaaa t 441

<210> 391

<211> 503

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (258)..(494)

<223> n=unknown

<400> 391
ggaagtatca gaagtcaaga tcaattttca agaacaggag cataaaattc aaactcaatc 60
tgtgttaaca ttaagagatt tagaagctca ttcagactga taactaacga ataatatagc 120
tttcatttgt tggagacttt atgtgagcca gccagttata catgttattt ataattccca 180
cagtaacact gcaaggtagt tatcaactct attttgagct tgaggaaatt gaggctaaga 240
aatatgccat ttaacttnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 300
nnnnnnnnnn nnnnnnnnnn ngcattttga ggtcccagtg agtagctctt ctggtctgga 360
ttagttcagc tatctgcagt ctgctaacat atctggtgct agatgatcta caatganttt 420
accacttag taaatcatgt tgatgggaag gttttgttca nggnncctca actctctctc 480
atgagactgg tgnaaaaagc tgc 503

<210> 392

<211> 638

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (2)..(479)

<223> n=unknown

<400> 392
anatgnaact nancnattcc tctnctcttn acatggntct atttctctac ttctcaaact 60
tggnaatggt catctgaatt gtttgggtcaa ctagaagtta gaaattttta aatggaaaat 120
tttnaaatta gaaaatttta cacaagcata tatttgaaaa aatgctcaat tactggggct 180
tttctctctt tgctgtgctt gaaaacttna gtccatgaca tgattgagct canggcagct 240
tttcanacca gtctcatgga ggagagttga gggtagctga acaaaaccta ccatcaacta 300
natttactaa gtgggttaaag ncattgtagn tcatctagca ccagatatgt tagcagactg 360
cagatagctg aactaatcca gaccagaaga gctactcact gggacctcaa aatgcnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnna 480
agttaaatgg catattttcta agcctcaatt tcttcaactg caaaatagag ttgataacta 540

ccttgcaagtg ttactgtggg gattataaat accatgtata actgggctgg ctcacataaa 600
 gtctccaaca aatgaaagct aatattattc gttagtta 638

<210> 393

<211> 427

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (3)..(100)

<223> n=unknown

<400> 393

tcnnccgata tnnnnatntc nnaaatatat natganatac aatttaanag tcagatcctt 60
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 tatttaaaaa gcctaaaaat gatcttgctg gttttcttca gttgagtgtt gtgtaagtga 180
 aaattacttc acaaatccca ctattagcta ttataatcaa atcagctttc actcttccat 240
 gagactgttt ccttcacaag actttgggtg accataacca attttatagt aatatacaac 300
 aaaaaataat gtggagaata gcaaaattaa acatattttt ttaaaaaata gaggtgttct 360
 ttcccaggat tttttttaag agtaaataat gttagcttat gggattgtag tgcacagcac 420
 atcccc 427

<210> 394

<211> 189

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (167)..(167)

<223> n=unknown

<400> 394
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 tgaaaccaca ttgaatgata attcatgaga tcagggtatc caaatcatct tcttctacat 120
 tgttctctct taaaaataag ccccggtata aacctttggt ggactcngtg ctgtctgaat 180
 cccagaagt 189

<210> 395

<211> 405

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (101)..(101)

<223> n=unknown

<220>

<221> misc_feature

<222> (396)..(396)

<223> n=unknown

<400> 395
 tgaacttaga cttgttaaca gaatagcaga cttgtatgag actaaataaa aattatatgt 60
 tgttatagt agtggtattg aatagtgtgt ctttgccagg nagagagctt tgtaataggc 120
 tgtgtcttgt gtagtttgga actatttttt tttcctaaaa tttcttcaga tgccaaccat 180
 gtctgtcaaa ctctggatga gtcgcctttt acttagcttt ttaagaactc tttttggatt 240
 cactaacttt tatctgcatt tttttatcca tgctctatta agtgtctagg atcctgataa 300
 ttatgcattt tctctgaaga tatctatttc cagtaaaatt gactatctag tgaagattgt 360
 aagccctgat aatatatttt gaagtgtgtg tatgancgga tgtgt 405

<210> 396

<211> 296

<212> DNA

<213> homo sapiens

<400> 396

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aatacaaatt ttaaaacaaa tactacacag tttaatagag agattagcaa ccaaattgta      60
taggctggaa tgactttttt cagggttgaag aaaatgaaat tattttttaa aatcgtaaca    120
aaatgacttg aacatgttat gtgatgggtt atatgccaag taattacttt tgattgattt    180
attaatattt tttaatgagc acccaaaaac tattgtatag gcagaaaaaa gaactattaa    240
tctatgaata gaaatttctt tagcaatttc attcttaaca gctattattt ctcgag      296
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<210> 397

<211> 341

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (31)..(338)

<223> n=unknown

<400> 397

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tacnaagtca ttgactaatc ctacgccaat acaacagcaa ctngacgct tcaactgaaca    120
tnactccagn ccaaattgtc gtggaagcct ctctctctggg ctgcagaaaa tatttgaaga    180
ncccactgac agtgatttgc ataaactana atctccaagc caggacaaca caggcagcta    240
cttcagaggg aaaacatnat tgctgggttca gcaagcctcc tctcagagca tgnacttatt    300
ctgaaaagga tgaaagggaa actanccttn cnaatggncg g                          341
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<210> 398

<211> 414

<212> DNA

<213> homo sapiens

<400> 398

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tataagccca aatggctctg tgaaatcaga agtgcaaagg tgtgcaaact tgtatctgaa 60
gacctaccag ggacaagcag gtaagagctg atgtgagtgt gtgtgatggg atctgtaagg 120
aactggaaca cacatgtcct atccaaagga atcagctgca gctgcttggt gtcaagtata 180
aagtcaggac ctggcttggc tttaaccgtt tttcaagaaa actggaaatc tggattttca 240
gcgaacatgc ctgattttta aagggttgact caagttttta caaaatacta tgtgggacac 300
ctcaaataca tacctactga ctgatgacaa acccaggagt ttgtgtgtct ttataaaaaa 360
gtttgccttg gatgtcatat tggccgttgg aggacacagt ttctattgta attt 414
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<210> 399

<211> 371

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (2)..(62)

<223> n=unknown

<220>

<221> misc_feature

<222> (211)..(358)

<223> n=unknown

<400> 399

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antcgtaaata ccaaatttac aatagaaact gtgtcctcca actgccata tgacatccag 120
ggcaaacttt ttataaaaga cacacaaact cctgggtttg tcatcagtca gtaggtatgt 180
atttgaggtg tccacatat tattttgtaa naacttgagt caacctttta aatcaggca 240
tgtncgctga aaatccagat ttccattttt cttgnnaaac ggttaaagcc aagccagntc 300
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ctgactttat acttgncaac aaggagctgc agctgattcc tttggatang acatgtgnng 360
tccagtgcct t 371

<210> 400

<211> 320

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (219)..(219)

<223> n=unknown

<400> 400
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gttcgcgctg ccccaacttc aaggctggcc gctatgaggt ggagttggac gcgggtgtca 120
aggacgtgcc ctgccaaacc cggcgcggtg tgtgcggaca gcaacctcgg gcctgtcccg 180
ctaacagctg gtcttcatgc tgggccagtt cctgcatgng cgtgggtgcc acaaccctct 240
aaaacgctgg gcgtcaacta cctggatgag aacgtcaagt ccagctgctc gcccgtctaa 300
attgccatct tctacacagc 320

<210> 401

<211> 497

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (447)..(447)

<223> n=unknown

<400> 401
ctgcagggcc gtacagctct ggggacagga ggtcacagcc gactttaaac cacaggttaa 60

gtagaaggtt gcaggtcaaa tagaagttcc cgtgtgattg catcacccaa cggcactgtt	120
ctgtcatcag gaaatgctga gtgcccgccg tggccgggtg ggcgcgggcg gtggtcagac	180
gctgctctgg agctggctat ctgtggcact gtcaggggct gaggactggc tgggcagaca	240
agtttccagg ccatctgaag actccgacag gggcttgtat aagaagcagg ctatggcaaa	300
gaagaggacg cccagcacct tgtacaggag ccccatgatg agtatgtagc ggctcatggc	360
cgaattctgg tacaccaagc aggagccctg ctggccacac tggctctgcc acagcagaca	420
ggcttgtcga tcaccagcc gaaggantgg ggcccgggat gccctagta ttctaactac	480
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<210> 402

<211> 446

<212> DNA

<213> homo sapiens

<220>

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<222> (155)..(155)

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<220>

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<222> (363)..(363)

<223> n=unknown

<400> 402

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agagaagtca tacatatgta ctgtatgtgg gaaangcttt actctgagtt caaatcttca	180
agcccatcag agagtccaca ctggagagaa gccatacaaa tgcaatgagt gtgggaagag	240
cttcaggagg aattcccatt atcaagttca tctagtggtc cacacaggag agaaacccta	300
taaatgtgag atatgtggga agggcttcag tcaaagtctg tatcttcaaa tccatcagaa	360

ggnccacagt atagagaaac cttttaagtg tgaggagtgt gggcagggtt tcaatcagag 420
ctcacgactt cagattcacc agctga 446

<210> 403

<211> 621

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (556)..(556)

<223> n=unknown

<400> 403
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aaggttttctc ccagtggtga actcgctgat gagactgtag ttgtgaagac cgactgaaga 180
ctttaccaca cacatcacat ttgtatgggt tctctcctgt gtggacactc tgatgaagtt 240
gaagacttga ggcttgactg aagtacttac cacactcccc acatttatat ggtttttctc 300
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tctgatgggc caaaagattt gaggcctgcc tgaagacctt cccacactcc tcacaattat 540
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<210> 404

<211> 392

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (105)..(105)

<223> n=unknown

<220>

<221> misc_feature

<222> (384)..(384)

<223> n=unknown

<400> 404

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aaatctgtcg tggaatatat tttattttca ttaattcagt gaagntgaga cttcatagta      120
attttagaat gcaacttgaa ggtaaaaatt ttactttgtc aatactgaag tctctgctgt      180
aatccttata tatctttctc cagagaacat aatattgtca aatagatata cttttttcta      240
ataggtatctt agaagcactt gaaatattct taatctctgc atgtgttaca attcagttat      300
ttctgtagtt tgtaaactct aaaagtgaca ttaccattat tttagaggat ggctaagtt      360
gtaattttgg atttttgtgg gaanccattg tt                                     392
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<210> 405

<211> 471

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (448)..(448)

<223> n=unknown

<400> 405

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cgtgttccac gataatgata tgtatgagat gctcttctt ataaacttta ttacgaagca      120
aataaaataa tacattcata atatatgaac aaagaaatca tacattaaga atcctgttgt      180
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gatttgctct taagagcaaa gagctgcaga atctctaata taaaaaagag gacattttca	240
atgtgtccat tttcctaaga aatgtgtgta tgaaatgcct ccaagtttct catactatat	300
atacttgctt taaagaagga aattatttct catttcattt tccaaatgag aaacattgcc	360
taaattcatg acatccctag gattatttct agtctcaact tccacacaga gatgtctgga	420
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<210> 406

<211> 409

<212> DNA

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<220>

<221> misc_feature

<222> (367)..(374)

<223> n=unknown

<400> 406	
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agcagcagtg caagcagccc tgccagccac ctctgtgtg cccacgcca aagtgccag	120
aaccatgtcc acccccgaag tgccctgagc cctgcccacc accaaagtgt ccacaggcct	180
ggcccaacct cagcagtgcc agcagaaata tctctctgtg acaccttccc caccctgcca	240
agtcaaagta ttccaccgaa gagcaagtaa cagctttcag aattcatcag gaccaaagaa	300
aggataagga tatttgggct caactcgttt ccacaagctc cagcttcac cttctcatcaa	360
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<210> 407

<211> 271

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

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<223> n=unknown

<400> 407

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gcaacagaat tcgattaaat tacaatggga aacatttttg aaaagctcnt taaaagtcta 120
cttgggaaaa aaaagatgcg gnttcntata atgagttgga tacagctgga aaaaccacca 180
tcttgataaa attgagctgg gggagactgt gcctgccgtc cctacagtag gtttctgtgt 240
tgagacagta naatatnaaa ataacacctt c 271

<210> 408

<211> 230

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (135)..(167)

<223> n=unknown

<400> 408

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tatgtctttg caaagagaaa aacaacaaga aacacagccc acgggacagg tgagccatgc 120
tgggcccagc ggggnngngg cagctacaca ggaggnnggc agggatngga ggttccagat 180
gctggaacgc ataaatacac agagtgccag acagtccac ttcagcttta 230

<210> 409

<211> 405

<212> DNA

<213> homo sapiens

<400> 409

gccatttttc ttccaaaaga attccattcc agcatttcct ctcatgtttt tctgtctctc 60

ttttttaatt gcatgcagtg catgataatt tcttttcttt catgacatgg cttagcctca	120
cagacagctg aatgtttgtca ccacttatTTT ggaaacctca gggaataatt gtgttaccag	180
cgtctgttct gaatgttttc tcatttttct ccaatttttag ccatgacagt tgaaaaagca	240
agtccagtggt gtgatggaaa tttccggaat cgttctgtct caccttgtgc aaattccaca	300
gttgggggttg ttaagatgac acctctttct tttattcctg gagcaaaaat aactaagtat	360
ttgggataat taacatgggt tttattcgag agactacttc tcttc	405

<210> 410

<211> 484

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (317)..(358)

<223> n=unknown

<400> 410	
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ttctagaact gctacaaata tgacacaatt ccatgctgca cccacagaat agtgagtagt	180
gtgtaggcca gggcaagaaa agaagagca ataatattct agttattgta ggccagggga	240
cccacatcca cgatatcggt tttttacagc tcattactga atcctcacia taaccccatg	300
gggtagatat tactgtnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnta	360
agtaatggac tgcaaggaca ctctgtctct ggcccagagg aacagctgga ggatgccagg	420
caagatgtgt gttaaggggg tctgcagagt gggggtaaac tgattctgga ttactcataa	480
tgta	484

<210> 411

<211> 371

<212> DNA

<213> homo sapiens

<400> 411
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accataccc tccacccact ggtcggagtt ctacattaat gagtaatcca gaatcagttt 180
acccccactc tgcaggagccc ccttaacaca catcttgctt gcctcctcca gctgttcttc 240
tggggcagag acagagtgtc cttgcagtcc attacttaac ctcgtaaagc tccagtggtc 300
ctcatctata aaagggtata acagtatatc taccccatgg ggttattgtg aggatcagta 360
atgagctgta a 371

<210> 412

<211> 371

<212> DNA

<213> homo sapiens

<400> 412
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aacaaatctc tgttgatatag aatactgttg gttaaaatat atcagcagct aatagctcat 120
tttaaataga ttctgaaagt tcaagaatth caggttgcca gacactaata tactctacaa 180
aatcagaaaa ggctcattac tgcttactta cacaacaaaa aatttcctaa aaatcatttt 240
taaatatgth tgagttcaaa acataaaaaat gccatgttac gatattttta aacttaatga 300
aactggatat atttgctgat tcttgtaaga aacacaatca caaataaagc tcactctgtt 360
gtccaaaccc a 371

<210> 413

<211> 274

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (106)..(266)

<223> n=unknown

<400> 413
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 aagtaagcag taatgagcct tttctgattt thtagagtat attagtgtct ggcaacctga 180
 aattcttgan ctttcagaat ctatttaaaa tgagctatta gctgctgata tattttaacc 240
 nacagtattc tataacaacag agattngtta agga 274

<210> 414

<211> 480

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (47)..(47)

<223> n=unknown

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<221> misc_feature

<222> (152)..(152)

<223> n=unknown

<220>

<221> misc_feature

<222> (444)..(476)

<223> n=unknown

<400> 414
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 gttttggcac atatcttctt cactttttcc tatagtgttt ttaacctgtt ataattggaa 120
 tgatagagat gtatttcaga attttgcatt gnccaaatca atgatttttc tttttaatat 180

gtaaagtatt tcattaacag tgtagattct ttctgatgtt tggggagcca tgtttaaaaa	240
tgtagtatgg agcaattgaa aaaggggtct tttccctag cctaattctt actaatctca	300
gaaaacaaag atcaaataga ctgtgaagtt gaactagtcc tcttagtgta gtaaccaa	360
ttaggaaaga tcaggataat ttaggaagga aagtaatcat ttatttaatt attataatta	420
taaaccaatt attttaagtt tggnatattt tatggtataa aaccattacc atggtnttaa	480

<210> 415

<211> 158

<212> DNA

<213> homo sapiens

<400> 415	
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gggtcgcccg ccacccgagt gacgacacg gccgtggggc ctggcaggcg ctggacagcg	120
cccaggagact gggacattaa acctgacctc cctcctc	158

<210> 416

<211> 106

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (90)..(90)

<223> n=unknown

<400> 416	
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gggccttcg cggaggccgt cccgtcgctn tcgggcacca gctcca	106

<210> 417

<211> 613

<212> DNA

<213> homo sapiens

<400> 417

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catagagttg ttcccccttac tcagggtgcc accccagtgg tggatggggg agcgaggcgg 120
accatgtgac ttggcatgaa cacactgggg ccacaagatg cacatctgat acataatcta 180
agactgttgg gtttttcttt agctcatagc atttccatca agggatttgg tagtctccag 240
ttgctgagac aaagtgaata gagaatctca tgatttattt aaaaacaaaa ctattttaat 300
atgtcccat tttatttata tcttactttt tattagccca aagataatta aaccgaaaa 360
tactgtagac tctgtataat ttaggcagtt ttatgaatat ggattttaac tctgacctaa 420
atgagctgtc tagtgactca acaatagcta cctcttgctt caagatagta ggaactgatc 480
agcttataaa gctgatgctg cccagttctg ttctgagtc agtgtgcata gctctgggct 540
cccaccatgc ccgttagcct gtgaaattga tttttttaa tggttgatca ggcatttggc 600
ctatagccaa aga 613
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<210> 418

<211> 463

<212> DNA

<213> homo sapiens

<400> 418

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ctctttcaga gtgagcatca atactccatt tttctacctt acctgccctt tgaataaacc 120
tgaacttgca ctgatgatgt taaacatggt tgaacacttg accacaacat accccattaa 180
ccctgcatgg aagcaacca tctgacaacc aaactctggg ttgttatttg gaagccgaaa 240
tatgcatcat gagtgcattt gcgcattacc tggtacataa gcacagcaaa tgcttggtga 300
tacattaaag ttctgcttg acaatatgat ctttaatatg cagacacata tcacctgata 360
ctaggtaatt gtatggaaat tatgagaagt aatgggggag aaagtataaa atggtgactt 420
ttctagtata gggattattt tactgactct tggagtcaga cag 463
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<210> 419

<211> 353
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (23)..(23)
 <223> n=unknown

<220>
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 <222> (172)..(335)
 <223> n=unknown

<400> 419
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 cactcctaaa cctactaac tgaaattcct tagtttatgc ctctaactca cntcttggtt 180
 ccnccattca aggacntatc tcccagcnat caaaatccac agaatgnaat tcattttag 240
 agaaaatgac tgtggagtgtt gagaactggt tcatagatga atgacattaa ttaaggntat 300
 catctctaga aagcctggag nttctgtaaa ttatnaacta ttcactctca ttc 353

<210> 420
 <211> 300
 <212> DNA
 <213> homo sapiens

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 aaggaacaag aaaaagactc agaaatgctg cagtgaataa taattccact tacacagtgg 120
 gggactcaaa gtcagccaca tttcacatac tggtactgaa gaaagcacca agtcttaatg 180
 gaacaaagac catagaatga attattttat ctccctcccat gatgctgaga ggaagcttcg 240

tattctgatac tctgagtga tccctttgtt ctctgtttaa aaaaatctaa aaagaaaaag 300

<210> 421

<211> 70

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (20)..(61)

<223> n=unknown

<400> 421
agagatcaga atacgaagcn tccnctcagc atcangggag gngnnaanat aattcagtct 60
ntgggtcttt 70

<210> 422

<211> 402

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (190)..(192)

<223> n=unknown

<220>

<221> misc_feature

<222> (386)..(386)

<223> n=unknown

<400> 422
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tggaaaaaag cagaaaaatg gaaaagcaaa aggagattaa attgaactgg gccttaactg	120
ttgttgacag tgaggaaaaa ctcccatatc atataaaatt tcagggaaaa cagaagcaaa	180
ggagagcttn gnggtgggga gaaaagacaa atgtgctcta tgcctagta actcttagac	240
tgagtaaagt gttaatacca taccagatg ttttatttat gaagttttta ttttaaacad	300
tttttttaaa aaattagcct tgatattctc cagaccaaag caatcattaa gtgacttttg	360
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<210> 423

<211> 439

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (317)..(435)

<223> n=unknown

<400> 423	
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aagcctgata aaaatcaaca tattctaaca gcacataaat gtaactatct tatgatgtta	120
ctaataaaga catgagttgt ttcattgttc aatcagacaa taatcttaat tttcataata	180
tatttctgct actaacagga gtattcaaat gctgcctttt catcacaaaa aattgtttcc	240
ccacagtgat ttgtgcctca agtcatgggt atctctgggt caccagacaa gactttactg	300
caattctttc ttattttnnn nnnnnnnnnn nnnnnnnnagc ctctaagatt ctacagagat	360
cagcagattt taaaaatttn nntacaaccn tnntgtact ctgactagag gtggagagat	420
ttgaccattc cggttagca	439

<210> 424

<211> 401

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (62)..(62)

<223> n=unknown

<400> 424

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anaagggggg agtgagaaca tagcaaataa gaactggagt atttgggtgt gccagaaaag 120

ctttgttgga aaaagatttg aagcaattgg tggagtcaac agaatgggag gttagagaaa 180

gattaatgcg acggacttaa aatgggtcag agcagggatc ccaggatgtc cagactgaat 240

ggaggggtgga aagagattaa gtacaaagtg aggaagatgg aagatgggtg aatagtgtg 300

aatatcaaga gtgtacatat catccaaaag agatgtttat atccactaaa tgatacagct 360

gaatgaagaa agaatgctgg agaaaatgta aggagtttgc a 401

<210> 425

<211> 550

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (486)..(486)

<223> n=unknown

<220>

<221> misc_feature

<222> (538)..(538)

<223> n=unknown

<400> 425

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cagctagtag aaaggagtaa ggagcaagaa aggggggcac acattcctta aggacagttt	180
ctggaagcac cacataattc catttacacc cattggtcag aacttgggtca cctggctgta	240
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gaagaaggga atagtaaata ttaaaggaca ccagcagtct ctgccacact cacctgtatt	360
tgttccaact tcaatgtgtt tctgtttctt gccacttctt ctagattgat ctggagcata	420
gcagagagag attcttattt aatctttcaa acaacagagt gaggtaggca ttactattac	480
atttantcta cagacagaat aaaaatttaa agaagtactg acctgtgtaa gtcacacnat	540
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<210> 426

<211> 354

<212> DNA

<213> homo sapiens

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tagccttttg tttttatggt gcttagattc ttatgtatac tgaatatttt attaacatgt	180
agcatcaggt tgaacatgct tgtcattgat atatggaaga tgctatagtt agaagtgaat	240
ttgttctgct ttcttaatat tttccatgct tagcagtga aaacagggtt tgccccagta	300
gagggatctt tggagggtat tattttttat gctgctgaat atcatgtcta taat	354

<210> 427

<211> 408

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (136)..(136)

<223> n=unknown

<220>

<221> misc_feature

<222> (360)..(400)

<223> n=unknown

<400> 427

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acctctctcc aaaaancctc ctttcaagag gccctaactc acttctccca catgcacca      180
cacggattta ggagcttgga catgctctc atttccatat atttttagtt tcttcttcac      240
tgcaataaat ataaagttgg caatgctcat acaccacagc acagacaata tttcaggctt      300
tagcatataa ttgtaaacag tgactagggt aaaaaataa aataaagtaa gttggacttn      360
tttnnttant tttntnttta aacagacaaa ntctctaagn accgggca      408
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<210> 428

<211> 421

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (98)..(130)

<223> n=unknown

<220>

<221> misc_feature

<222> (238)..(416)

<223> n=unknown

<400> 428

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catgaagtag atctaggaac tttatatgtc attttttntt gtattttgtc acaaaagaag	120
ttttaatggn agaaccataa agctatttga cactcttatac actaagagaa gaagtgtaat	180
agattcataa gctttgtaaa atgatattcc ttgtatgctg ttatcacagt cttttggnag	240
taattcctta gttaggtaat gcatgantct tgcaaataaa ttttatttgg gaagtcagta	300
acagccttat ggttcccatg ctataatcan cagggatgta tttgattcag ttaagataga	360
aactgtgtct ctatttctat tattcatctt attaganaag taatgctctg tatagnaact	420
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<210> 429

<211> 442

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (380)..(402)

<223> n=unknown

<400> 429	
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attaaaccag gtccacctac atttccttg gaccttgtct ctctgaactg catgcagaac	120
ttcacataac tttcatctgt atttcctctc attactagtt cttctacatc ttttagaatt	180
cttttatgag cagtattgtg tgctgtgctg ggggtataaa aatgaaaaag acatagctcc	240
taagtaatcc tcaggagac gttgctccca cagttacccc agcacatgtg tgctaagggt	300
ttctcttttg cacctgtaac agagcacagg acacagaaag aactaccag ggtggcaagc	360
tggagcaaag ctgagttccn aatttttggt attaacaatg gntaatattt atcgagtgt	420
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<223> n=unknown

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<222> (112)..(580)

<223> n=unknown

<400> 430

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gnaatcatc ttgataaacc atataaaggg agcaatgtca ccttagatgt caattttggg 180
gcaggccttt taatttattn tgttccanna ttaaggaat gccctatatg gatcatagan 240
ggcatatttc tcaaagctat gnagggcata nnactctgga aacttacaaa taaaaaggaa 300
gctttaanac aactgggata taccaanaga aaacatcnat ctaacgtttt naccatgang 360
gctggcactg agtaagcact cgataaatat tagccattgt tnataacaaa nnataggaaa 420
ctcagcttgc tccagctgcc accctgggta gttctttctg tgcctgtgc tctgttacag 480
gngcaaaaga gaaacccttn gcacacatgt gctggggtaa ctgtgggagc aacgtctccc 540
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<211> 431

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<222> (420)..(420)

<223> n=unknown

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 gcactttaaaga agaagcagcc caatcaattg agcagagact gatgaaaatg gatcaçactg 180
 caatccaccc acatctactt gatatgaaaa ttgggtcaagg caaatatgag caggggttct 240
 ttccaaagtt acagtccgat gtcttggcaa caggaccaac cagtaacaag taagcatgtt 300
 cttcacttga gtagttgggt gaaggaatga atgaaggggtg gggctctctgc aactcaaagt 360
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 ttgaaatatg g 431

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<211> 429

<212> DNA

<213> homo sapiens

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<223> n=unknown

<220>

<221> misc_feature

<222> (276)..(428)

<223> n=unknown

<400> 432
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 gaagaacatg cttacttggt actggttggt cctgttgcca agacatcgga cngnaacttt 180
 ggaaagaacc cctgctcata tttgccttga ccaattttca tatcaagtag atgtgggtgg 240
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 gtgctgcant tctganatat agatgtccgc aagtgggtgc ccttacatta tacagnetta 360
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<211> 356

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (129)..(129)

<223> n=unknown

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<222> (255)..(349)

<223> n=unknown

<400> 433

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 taatatagnt ataataatta taaatgcatg ttctaggtgt gatgatagca cagagtagag 180
 taattacctc tgcttggcat cgtcagggat ggctttatag aggagaagat tcttgagctg 240
 agtcttgaag aaggnatagt agaagtttgt cttgtggatt tggtgaaang ggggaatatgn 300
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 <211> 407
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (301)..(352)
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<400> 434
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 gtctgcctct cctcattgcc cagatgcctt gtaaggtct tctgaaggta aagaaacaca 180
 tgaaaatgca cattgcatat ggtgatgtag taatgcctac atgtgtgcct aacacacctt 240
 tattgggtga gtcataggag tacaaagagt aattgcacag aattaaatcc attcatgctc 300
 natttttgct ctttctagta ttttagctat aacaacaaac agcattctgg angggctaac 360
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<210> 435
 <211> 479
 <212> DNA
 <213> homo sapiens

<220>
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 <222> (207)..(453)
 <223> n=unknown

<400> 435
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cttttaaata	gtgttttgg	gaactggct	ttgggtccc	cagaattaga	agggccagaa	180
ttttatctca	gaggaaagta	taactanaaa	gaagcaattn	aaaaaaaagg	gaaaagaaca	240
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aatgagaaac	agtgctctca	ttggatgcat	gtcacagaga	gctggggaga	ngagacggtc	360
gtgtcagtat	ggcacttatt	tcactcattc	ttgatttcta	gggtcagtca	taaataacat	420
gaaatgctct	ggcccatcgt	ctgactnaca	ggnttcatac	caagcagtct	agacatcta	479

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ttattttgca gtggctaata gcaactgagga atttcttttt tggtgcatth ggtttacact      180
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<221> misc_feature
<222> (13)..(21)
<223> n=unknown
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<210> 438

<211> 320

<212> DNA

<213> homo sapiens

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gatgcataca gaccttggtt gaatatggag caaatgtcac catgcagaac cacgctgggg 180
aaaagccctc ccagagcgcc gagcggcagg ggcacaccct gtgctccagg tacctgggtg 240
tggtggagac ctgcatgtcg ctggcctctc aagtggtgaa gttaaccaag cagctaaagg 300
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<210> 439

<211> 549

<212> DNA

<213> homo sapiens

<400> 439
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caaatactca tgcaattgat gaaatataaa atggtatcag tggcttggtg aatgtcctgt 180
gggtaggggtg aatcaatcta ctcttaaaaa acatacattt tcccaatcat gcttttaaac 240
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gtctactact ataaatttaa ggcacactga tattctgttc ttctgctggg gaggcattgt 360
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<210> 440

<211> 384

<212> DNA

<213> homo sapiens

<400> 440

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ctatatagga gaggttgcaa atgtcagtgc ctcagaagga ccaggcaagt tctgtaaatt      180
attgatgtgg ataaggcaaa gaggaacaca agaatggtgg agaccagggt gaactgcaga      240
acacatgccc tctttgaagg ggtgcccaca ctcagctcta gacaatcaga accatgcaga      300
aatcaggccc agggctgcta gatcttctga cgtggaagta tgatattacc tgacacgtaa      360
gtgttgacaa ctaactcaaa ctct                                     384
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<210> 441

<211> 547

<212> DNA

<213> homo sapiens

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<221> misc_feature

<222> (528)..(528)

<223> n=unknown

<400> 441

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cctcttgccc ctttgcttgg actccaagtc tctctctctg gcagccagga cccacccatg      180
gggacagccc tatttagctt ctgctctggg aacagcaaaa atcaggatgg tgggaggggc      240
cgagtcttgt cttgtccttt catcatcatg actgttgagt tcttggtgt gccatcacg      300
ccacagcacg acgcctgcca aatgcccc aacctactgc ctgatgcagg tgccattgcc      360
attagcggtc atcgacagct tagggcagca ctttccaacg ggtgcccatt ggacaccagc      420
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ctgcgagatg cttttgtggg aaaggggttt gtggttcaat aactttcgga agtgctgcac 480
 actctgtccc caagttggac attcacaaag gccgtattgc cgtaaagntt ctgacaagcc 540
 ctattag 547

<210> 442

<211> 530

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (523)..(523)

<223> n=unknown

<400> 442

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 acccggcctc cccagcggag agtcagctca caccacggc cctttagctc tctggcagca 180
 gctcccaaaa cgcacttgag gaaccaataa ttccttgggg gttaatagct gtcccccaag 240
 aaaagggttc tgtggtcaaa taagttaga aaacatgggt taaagaaggt ttagcaagaa 300
 gcttttctat agggcttgct agagccttta cggcaataac ggcctttgtg aatgtccaac 360
 ttggggacag agtgtgcagc acttccgaaa gttattgaac cacaaaaccc ctttcccaca 420
 aaagcatctc gcaggctggg gtcccatggg caccgcttg aaagtgtgc cctaagctgt 480
 cgatgaccgc taatggcaat ggcactgcat caggcatagg ttnggggcat 530

<210> 443

<211> 212

<212> DNA

<213> homo sapiens

<400> 443

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 ccattaggtg catctacat ttctattata ttcaataact aagcttttta ggacttatat 120

taaactccat aatcttaata tttatgacca caacttaaca attaatcaaa ctattaaaca 180
 ctaaaagagt caaaggctga gtatgggtgg gg 212

<210> 444

<211> 335

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (331)..(334)

<223> n=unknown

<400> 444

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 agagcaatth ccattaactt ttgagtcac atctagtcca catgatatag agaaagggta 120
 aaagaaagac tgaaacagaa gtaaaaatgg aagaaaaaga ttgatctgc aattataagt 180
 aatctgcctt ttgaaattag cttcctgaga ctcatctctg attggagaac tgttaaagtg 240
 tttcagagga gcaggggttg tctatccgag cagtgtctcc tgaatcatal tgaatacttg 300
 agaaaatcag accagcttta ttgaaactca natng 335

<210> 445

<211> 348

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (287)..(337)

<223> n=unknown

<400> 445

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gagaagcaag tcactatttg agttcaaata aagctgggtc gattttctca agtattcagt	180
atgattcagg agacactgct cggatagaca acccctgctc ctctgaaaca ctttaacagt	240
tctccaatca ggactgagtc tcaggaagct aatttcaaaa ggcagantac ttataattgc	300
agatcaaadc tttttcttcc atttttactt ctgttttagn ctttcttt	348

<210> 446

<211> 568

<212> DNA

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<222> (487)..(487)

<223> n=unknown

<400> 446

gcgggccccc ggaggccgag ggggttcggcg acgcgaggag agggagagtc tgggccgcgc	60
gggagccgca gggcgcccta gccttcgcag aaacgatggc ggaggaagaa ggaccacctg	120
tagagctgcg ccaaagaaaa aagccaaagt cttcagaaaa taaggaatct gccaaagaag	180
agaaaatcag tgacattcca attcctgaaa gagctccaaa acatgtatta tttcaacgct	240
ttgcaaagat tttcattggc tgtcttgagc cggttactag tggatgatg tatgctctct	300
acttatcagc ataccatgaa cggaaattct ggttttccaa caggcaggag cttgaacggg	360
aaatcacgtt tcagggtgac agtgccattt attactccta ttataaagat atgttaaagg	420
caccttcatt tgaaagaggt gtttacgaac tgacacacaa taacaaaact gtatctctga	480
agactanaaa tgcagtgcag caaatgtctc tgtatccgga acttattgct agcattttat	540
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<210> 447

<211> 362

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (199)..(346)

<223> n=unknown

<400> 447

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aacatttcaa ttgtcaaaag atacatttga gtagaatata ccaggtcaat ttttctattt 120

aacttctact ccagcaatac aacatacatc ggtgacatca aataaggcag tcagacttct 180

gtttatttta tttcttaacna ttctcactaa gatctctaaa gagagtctna ttcttttggt 240

taagtagcat aagagagtct nattctttan aaccattatg tttacatgag aaagtatctt 300

ttcctctnca aatatgnaga cagatatagg gattacatga aattantagc aaagttaatt 360

ga 362

<210> 448

<211> 289

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (121)..(121)

<223> n=unknown

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<221> misc_feature

<222> (276)..(276)

<223> n=unknown

<400> 448

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tgcggggtcgc ggctggagc cgttcgtaat gcgagaggct cgggcgcggc tggcggccac	120
naggttgaat atatttcagg aaagggtttt ttcaccacct gttctgattt gaatatgttg	180
aagaaattaa aatctgcaga aagattattt ttgctgatta aaaagcagtt tccactttat	240
tattcttctg taagtaaagg gaaaatattt aatganatgc aaagactta	289

<210> 449

<211> 276

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (263)..(269)

<223> n=unknown

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tgatacactt aagtgaaccc ctgaaaacct ttattttgaa attgaagttt ttgctcagaa	120
actgggcaga acttttcaca ttctgacaga agataaaact taagtctaaa aaatattcgg	180
taactttttt ctcaaaaaca ttaagtactt tagaatataa agcagaaaact cttaccaagc	240
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<210> 450

<211> 339

<212> DNA

<213> homo sapiens

<400> 450	
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tttcttttta actgggttcc cagctagttc cattcccttg aattcagtg caaagtcact	180
gtcaataaaa gggttttact cttcttcctt tttgaattgt aacttgotta ctgaattcag	240

gaattgggtg atcaaaagat aactgcttat tatagtaaga taaccttgga acagaactgt 300
gattaaaaac ctgaataata aaaaacacac aagacccat 339

<210> 451

<211> 298

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (142)..(266)

<223> n=unknown

<400> 451

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ctgaattcag taagcaagtt acaattcaaa aaggaagaag agtaaaaacc ttttattgac 120

agtgactttg ccaactgaatt cnagggantg gaactagntg ggnacccagt tannaagaaa 180

atatttgctc ctggactact tttactgaga tactgttagt aatgncttgc attcacactt 240

tcttgaattg tgannggnta attgtnaaaa gttagatgga gaatcacagt tttgttgt 298

<210> 452

<211> 485

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (36)..(483)

<223> n=unknown

<400> 452

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gcttaataaaa tgggtggctgt gcttggtgtt acctgactct ctactcatcc tttgggatnt	180
gggtgnctgc ntgtccgtcc agatgnccgn gagatctcac gagtntcttt tgantgcaaa	240
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<210> 453

<211> 468

<212> DNA

<213> homo sapiens

<220>

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<222> (92) .. (107)

<223> n=unknown

<220>

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<222> (349) .. (445)

<223> n=unknown

<400> 453

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catctgccac tccgacgcac cttcttcctt cggttccacc cctcattcag ccaaagcgct	180
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ccacagtaat ggtggctggg ctgggagcct gagatgtag caggaagana gctgctgggg	360
cagaaagggt gctgaggggt agcgtagagt ctctgtgct aaatccccgc agctgaacag	420

cacttgaagg ntacaaaact ctttnaactc ttggtctctt attgtgat

468

<210> 454

<211> 504

<212> DNA

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<221> misc_feature

<222> (28)..(28)

<223> n=unknown

<220>

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<222> (187)..(324)

<223> n=unknown

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<222> (458)..(501)

<223> n=unknown

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gccaggccgg ggctgccgag gccacggccg cccccaccct ggaggacagg atcgcccagc 180

cctcgangac ggnctcgccc cagaccgagg aattcttcga cctcatcgcc agctcccaga 240

gccgccggct ggacgaccan cgggcnagcg tgggcagcct gccggggctg cgaatcacc 300

acagcaatgc agggcacctc cgangccagc gcgagcccca ggagccgggg gacgacttct 360

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504

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<212> DNA

<213> homo sapiens

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<222> (90)..(548)

<223> n=unknown

<400> 455

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cctgtccctg ctctcgggtg cngncctgcn cctccagaag caggtcacct caccangncc	180
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tncnagcnct ggnnnctgtn nnnncatggt aggancttn gcagtcttgg gaggtgccaa	300
ggctgggtct ggacaggagg aggcaacctc agggccctgg ngcccatctc aggtccagc	360
aggtcctgcc agtcctaggn tcccgaactt ngtgccctgt gancctccctc cccatggaga	420
gancngtgat gtcctctccc ccagctggtn ggagngtggg ggttctcata tngnggtct	480
gcnnngttga gctgagtga gctccccag cttccactga ccaccccccc acttnggtga	540
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<210> 456

<211> 488

<212> DNA

<213> homo sapiens

<220>

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<222> (454)..(454)

<223> n=unknown

<400> 456

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aacggggtgg tcatccactt gccaggcttg tttgaggaag cagagaagaa tgaaaagaaa      60
ggcctgaagg actgggagaa gaggctcatc atctctgaca gagcccacct tgtgtttgat      120
tttcaccagg ctgtcgacgg acttcaggaa gtgcagcgcc aggcacaaga ggggaagaat      180
ataggcacca ccaagaaggg aatcggacca acctactctt ccaaagctgc cgggacaggc      240
ctccgcatct gcgacctcct gtcagatttt gatgagtttt cctccagatt caagaacctg      300
gccaccagc accagtcgat gttccccacc ctggaaatag acattgaagg ccaactcaaa      360
aggctcaagg gctttgctga gcggatcaga cccatgggcc gagatgggtg ttactttatg      420
tatgaggcat ccacgggccc cccaaggaa gatnctggtg gagggtgcca acgccggcct      480
cctcggac
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<210> 457

<211> 541

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (495)..(495)

<223> n=unknown

<400> 457

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tttgaatata atttttaaaa atatacacia ggctggcttt ccaatgttta aaatcattgt      120
agaaaccaac aggttgaaca gaaatataaa agtacagaaa atggttttcc tgctttggtg      180
ttggttgtgg cggccgagga acgtgactgc tgctgtttac acaagtccag acgtgccag      240
ggcctgttgg gatcagctca gtctgtgact aaaacagctg gatcatcgac tctcttgact      300
tgccaacacc aaccatttg actgcgactc ccacgtgatt ctccacaaag cggatgtagt      360
tctgggcctg tgggggcagg tcctcccacc tcctggcgcc tgtggtgtct gctttccacc      420
caggcagcgt ttcatactca acttcgacct tctgaagcat ctctgggtta agctgggaaa      480
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tagggaatcc ttttnccggt cagcttgat gagacaccga ctttaacctc acccagtacg 540
t 541

<210> 458

<211> 516

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (226)..(226)

<223> n=unknown

<220>

<221> misc_feature

<222> (370)..(494)

<223> n=unknown

<400> 458

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cttgctgtca cgggcctggg gtcgcctcaa tcaggtggag ctgccacact ggctgcgcag 120
gcccgtctac agcctgtaca tctggacgtt tgggggtgaac atgaaagagg ccgctgtgga 180
ggacctgcat cactaccgca acctcagcga gttcttcgg cgcaantgaa gccgcaggcc 240
ggcctgtctg tggcctgcac agcgtggtga ggcctgaccc tttcctcctg caggaaacag 300
gactttttcc tgccctccca gcacagcccc cctggtctcc agcgtatctg gaaggggcag 360
gatgacaagn ggaggtgggg gctgtctcct gnnngggagga gaccctgctc tccctggcag 420
caagcctctc ctncncttcc agattagccc atcggtatga aggatnctca actttgggca 480
ggtgaagaac tgtnaagtgg agcaggtaaa aggggt 516

<210> 459

<211> 490

<212> DNA

<213> homo sapiens

<400> 459

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gttcagaagt ctcccacttt tcatacaaaa atactgtgct actgatacag ttgaaaaaat      60
tcaatgatgt ctctcctgca ggagaaattc acagcatccc caggggtcaac atgaaatctg    120
gccctgtccc cgccactggg ggctccccag gcctgcgttc ctgataaact gggacagggt      180
ttccaggcac tgaccaacta tccaccaagg gtcctctgcc tccaagacag accctgaatc      240
aatagcagca actttcccat atttcatgta gggatatgtg gagggggaca ggaactctcc      300
catttcccca gctgggccta ctacctgcct gccctgttca ctctggtgcc atgaggcagg      360
ttcagtgatt gattggtctt gcctgctgca gaggacctgg ccagctccag aagggtcact      420
catcagggtc tgcaaaggtc tgtatcatta atcagtgtca tcagtgtcct cagaagacac      480
tagcagagtc                                     490
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<210> 460

<211> 518

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (12)..(12)

<223> n=unknown

<220>

<221> misc_feature

<222> (241)..(267)

<223> n=unknown

<400> 460

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ggagcccaag aaaaagcacc cagatgcttc agtcaacttc ttagaattct tctttttttt    120
atgttcagaa aagatggaaa ttcatttctg ctaaagagaa agaaaaaatt tgaagacagg      180
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gtgaaggtga acaggcccat tataagaaag aaacaaaaat ctatattctg tctacaagga	240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnaga aagaagttcc aggattctaa tgtaccaaaag	300
ggatctcctt tttcttggtt tggtctgaaa atttcaccaa aagagcacag gagaacatct	360
tggctaattc attggcgatg atgtaagaaa actgagagaa atgaaagaaa tgaagaatta	420
ctgctgcaga taatatacag ccttgaggaa agaaaggctt taagattata gatataaagg	480
ctattgctgt attctgggga taaaagaaa gtctgatg	518

<210> 461

<211> 163

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (104)..(156)

<223> n=unknown

<400> 461	
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ataatatctc catatatatg taattgattt gtactatgca ctantaaagc ntgncttaga	120
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<210> 462

<211> 519

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (387)..(500)

<223> n=unknown

<400> 462
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 tgtgtccaat tgtccacggc agcaccaacc accaactctg gatttactct ttgagctggt 120
 gagagatgtg acgaaaacac caggaccagg gtttggtatc tatgcagtgg ttcacctcct 180
 ccttctctgtg atgtccgttt ggctccgccg gagccataaa gaccattcct actgggatat 240
 ggctcttgcc aatttcaagc acgctattgg tctgtcctgt gagctggtgg tggagcacat 300
 tcaaagcttt ctacattcag atatcaggta cgagagcatg atcaatacca tgctgaagga 360
 cctctttgag ttgctggtcg cctgtgnnnc caagcccact gaaaccatct ccagagtggg 420
 gctgctcctg tattagatac gtccttgtga cagcnggcc tgtgggtcac tgaggagatg 480
 tggaggcttg cctgctgtgn cctgcaagat gcgttctct 519

<210> 463

<211> 87

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (17)..(87)

<223> n=unknown

<400> 463
 gatgaaagat ataaganaaa agcccaaata agntgngcca tantaangca cccacagtcc 60
 ancactaana aaanatgna aattcan 87

<210> 464

<211> 320

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (80)..(315)

<223> n=unknown

<400> 464

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tgagagaact tgcccatcan gggctgggac atgggggtgt gggtaaagac agggatgaag 120
gatagaggct gagagaagaa ggaagaatca gccagcagg tannggcntc tgggaaacct 180
ccagcctcaa gtgtgttggg aacatgaaaa agctttgggg ggtagttgga tctnggtgtc 240
tggtcccatn ctggcagtgg ncattattct tgcctaaga gacactgcct tttcagcagc 300
agatactggg naganggggg 320
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<210> 465

<211> 399

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (79)..(79)

<223> n=unknown

<220>

<221> misc_feature

<222> (188)..(188)

<223> n=unknown

<220>

<221> misc_feature

<222> (306)..(362)

<223> n=unknown

<400> 465

taaaatactg aacatagtg ttaaataact ccagaaagtc caatctctcc agtgagtaac	60
gttaaaacca ttacacatna gcatgggaga atcgcttcca ttagtttagg acagagagat	120
tttgcttttt acagagtaaa tcagtgtctca aatagatact tcctcaaata tgtcctttct	180
acattctnaa cagcccaagt gcaataagat ccttccccct ttccaatcaa gaaaatgcca	240
cttttctact tgctcttctt cccagacat gagtctaagg acccaaagtg ctcaactcctt	300
tactgnttgt taagtgtaat gtggggaggc tcagaactgg ggctgacgct actganagca	360
angctaaggg ctggtatctc tctctagcag tcttagaac	399

<210> 466

<211> 445

<212> DNA

<213> homo sapiens

<400> 466	
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aaaactcttt ttggagata tcttccatca agcagtactc gtgccccatat acaatctctt	120
agtggttagg agaaataaat aaaagggccca taatggtttg ttctctttca gacataattt	180
agtaggggac aagaagtctg ttcttcagtg agtacactag agatttactc tgggtgactgc	240
cttttgagtt atgggtgaag taagggtacgg ctttaccata accttgattc attcaccctt	300
gattcatttc tcgcccccg t cactgattat ttccttgagc atatctctct gcctaact	360
ttagtaggtg ctatagagga tacatggaaa agtatgagat ctggttccat cccagtaaga	420
cattttaata gagaagatca aaatg	445

<210> 467

<211> 437

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (390) .. (431)

<223> n=unknown

<400> 467
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gtacaagtaa agtaaaactta ggtttggttt ctctcccatg gctggataaa ccaaactctga 120
tacatccaca tttaagggttg ttttccaagt tggtttccat aaaaggcctt taacaataat 180
aggcttttaa caacaaaaag gtatccctcc catcacaatg agagcttgat gagggctcaa 240
aagtgacttc aaaaactgta aataattatt ttccttgat ggcttttaaaa acagctactg 300
atagcaaatac agaaacacta aagaaaaaag acaataagga aacagctgtt tgtctagtga 360
atccataata aataccaatt tgaggctatn gnttncaang ccaaaatntt cttatgggaa 420
agttaatggt natgttt 437

<210> 468

<211> 392

<212> DNA

<213> homo sapiens

<400> 468
ctacgatggc ctgctgggtg acaatcagat catgcccaag acaggcttcc tgataatcat 60
cctggccata atcgcaaaag agggcgactg tgcccctgag gagaaaatct gggaggagct 120
gagtgtgtta gaggtgtttg aggggagggg agacagtatc ttcggggatc ccaagaagct 180
gctcacccaa tatttcgtgc aggaaaaacta cctggagtac cggcaggctc ccggcagtga 240
tcctgcatgc tatgagttcc tgtggggctc aagggccctc attgaaacca gctatgtgaa 300
agtccctgcac catatggtaa agatcagtgg aggacctcgc atttcctacc cactcctgca 360
tgagtgggct ttgagaaatg gggaagagtg ag 392

<210> 469

<211> 267

<212> DNA

<213> homo sapiens

<400> 469
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cctggccata atcgcaaaag agggcgactg tgcccctgag gagaaaatct gggaggagct 120

gagtgtgtta gaggtgtttg aggggagggg agacagtatc ttcggggatc ccaagaagct	180
gctcacccaa tatttcgtgc aggaaaacta cctggagtac cggcaggtcc ccggcagtga	240
tcctgcatgc tatgagttcc tgtgggg	267

<210> 470

<211> 516

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (321)..(475)

<223> n=unknown

<400> 470

ggaaaagttc agctgctaaa aggctatgga acttgagtaa gaggtagaga tttggaagct	60
gaagggggac gtgatttgga atgtgtgtat atcagcactt tcacattcta gacttaggga	120
tttttcttct gacttccaga agaaaattaa gaatagcaca tgtttcacag ctccactgcc	180
aaggtcttct aaggctacag gccaggaatt acagcagttg accacaagtg gaaaagagtc	240
taagaccaca catccttagg agctccagaa gaagatctag gtccacaaca gacctcaggc	300
ccaagcctta gctctggctg ngcactcctg ggctccccga gacagaagag cttgtngcta	360
nttaaagtct catattgcct gggcagtaac ccagagaaat ggaactcgaa tgttagaatg	420
gggaaaggnc ctgcnggggg gcntatggaa tatctcnatt tgtacttgag agaanggc	480
attagtaaca cctccgggca tataccctca gcagct	516

<210> 471

<211> 370

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (351)..(351)

<223> n=unknown

<400> 471

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tggtatacat taaatatcca ggatggagaa gccacatgct actcaccgaa ggaggaaatt 120
atcacagcag cctgggcacg cgttgtgagc tctcctgtga ccggggcctt cgattgattg 180
gaaggaggtc ggtgcaatgc ctgccaagcc gtcgttggtc tggaactgcc tactgcaggc 240
gtaagttgtg tgtgtgcata tgctgatgta tgtatgagag agaagccagc cagccagctg 300
ctgagggtat atgcccggag gtgttactaa tatgcccttc tctcaagtac naattgagaa 360
tattccataa 370
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<210> 472

<211> 524

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (315)..(315)

<223> n=unknown

<400> 472

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gtattaatga gttgattcac tctgaattga aggttcaaaa aaatgcacta aacaaatatt 120
tttatatctg tgggtattttc ctgttaacta ctcttagtga acacgtgacc atatacctga 180
tatcattaaa aaggaaaatg gcctaaacga aacgttaaaa gtggagggtat ttataaagtc 240
ttctgccaaa gaccattggt taatgatctg taaaatgtag attatcttct tttattatga 300
atgtgattgt aaganacacc ctaacattct ctaacttttg aaaatgaata ttttgtattt 360
ctaaggacca aggaaaatat tttttaagcc aatgtagtac acagaagcct tgtaaatgag 420
aggtacaatg acttgatca actgcataat gctagattag aattccagca tttgatgata 480
aatttatcaa tctttcctat aattcttata ctgcactaaa ttac 524
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<210> 473

<211> 134

<212> DNA

<213> homo sapiens

<400> 473

ctaacatact atagattgaa aaattataga atgattggtg aaagactttc aagcatgcag 60

gtatatcaca ttcaaatagc attctgtgga ggaagtagaa tggaaaaaaa gttcaaagag 120

aaaaagagaa gatg 134

<210> 474

<211> 119

<212> DNA

<213> homo sapiens

<400> 474

ctctttgaac tttttttcca ttctacttcc tccacagaat gctatttgaa tgtgatatac 60

ctgcatgctt gaaagtcttt caccaatcat tctataattt ttcaatctat agtatgtta 119

<210> 475

<211> 462

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (426)..(426)

<223> n=unknown

<400> 475

ggagtgttag gggtagctgt tggggtgtta tttgtgtagg agtggtgggt gtgtgttggt 60

gttgacgtgt acttaggagc gttgtgtgtg taggagtgtt ggggcatttg tgttggtggt 120

gtgtgtgttag gagtgttggt gtgttgacat atgtgttagga gtgtcagggt tgcataagggt 180

tgtgtacaca cgttcacatg tagctcctct ttgtttaatt ccacaaagct tcaactcccaa	240
actcagtgcc aacttcctct ctccgcactc aggggtcccc ttctcctccc aactgctccc	300
tccctgggcc cctaagaagg gtctgtgacc gtctgcccga gcctttgccc agcgacagga	360
gccagtgcgc aggctccctt tctgccagtc agatcacgct gtgcatctgc agaacggctc	420
caggangctc tgagagcaga gagcaggggc ttcctcctgc tg	462

<210> 476

<211> 513

<212> DNA

<213> homo sapiens

<400> 476

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ggaagtatgc aagattaagc aagagtgatt tttttttttt ttgacaaat caggtggcct	120
tcctaaacat actaagaatt atgttctttc atgtgtggag acacatttgt ttgcagcact	180
ttaaaaaata tatatggaat aaaagtttac atgttggtccc tctagggatc taattaagga	240
cattaaagta caattcttga gctactaacc atcagctctt cttaatcaaa gattgccatc	300
agtgtagagt gtatctattg gcacaacatt ctggtgtttt gataacagta gaactcaatt	360
tcagtaacta ttaggagcat ggtctgtgcc ctagcattaa aaatgttact tattattatg	420
tgaatatctt gtattattat acaatgcagt attcaaattt gtcctttag tagcagagatg	480
actgataatt tctaaaagat tcgatacctta aaa	513

<210> 477

<211> 509

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (293)..(317)

<223> n=unknown

<220>

<221> misc_feature

<222> (495)..(495)

<223> n=unknown

<400> 477

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catgcatcaa gaaaacataa ccttggtcct cagggtgaacc cttggaacat tctgtgaccg    120
cctgatgtcc attctgagcc accttgccac acatgcttac aggcagcact gctaagggtt    180
caggtgcccc atggctgaca gcccgagttg cttctgtgga ccatcatgcc gctcggcacg    240
tcctgagaca gaagttgctg caggaaggag cttctggaga ggtcctgtgg cannnnnnnn    300
nnnnnnnnnn nnnnnnttc cttcttgaac agacattcca actttagatg tgtttataga    360
actgaccttt ttactaacia aatacaatga tatatgttgg aaactactta atatgctttt    420
cctgcacacc ttagcaataa ctgtaggggt ctctgctaga gttgtttgta tgtacagcaa    480
ttttgaacia attgntttta atgtaatat    509
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<210> 478

<211> 466

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (332)..(456)

<223> n=unknown

<400> 478

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caggcaaacc aggatatatg gtcagcctac ttgatgcatt atgaaatgcg gtgattgccg    120
agttctgtca ttctcacctc taagatatct ctcatgtcca tctctctttt tccattctga    180
ctaattaagc ctcaactgct attaccagtg accttctaac tgcttttcct acctttaagc    240
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tattctcacc cctccatcc ttgtgatgca ttattgcat cgtgatcttc ccgaagcata 300
gctctgacta tggcccatct cagaaaacct anagtggctc accattgcct gatgggtggag 360
ttnagagccc ttgagctagc atttcattat ggnccgtnat tttccccgc ancacttten 420
agggttgtgg accacaattn ggnntggggc ttaagnatgg aatgaa 466

<210> 479

<211> 227

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (40)..(207)

<223> n=unknown

<400> 479
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actctcatgt gtgctttanc tgggaaganc tnactctngc catgactctn gcctggctgg 120
nctagctccg ggatggggaa nancaaaggg aaggggagtg acagcntctg gnaggggacc 180
gcagacgtgg gtggggcatt ctccagnngc atttggcttc ctgcttt 227

<210> 480

<211> 522

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (446)..(504)

<223> n=unknown

<400> 480
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atgaaacagg acttgagtga cacctggagc aggtaagggc catcaccttt agccttcacc	180
ctgtacttgc catccaggca actcacaggt taatacagag gtgccaggct ctggagcaag	240
cttaattgac aggaaggtgt gggctggatc ctctggaagc tataaataaa agtacctgct	300
tttgcaggca caagatgccc tcaccactag ctccctgggca aggggaggag aaaaagaggg	360
gagaaagaag agaaggaggt gacatttaga aaaaatgagg ggtgccagga actgtgcttg	420
gaagaaagga ttggaaagca ggagancaaa tgcccctgga gaatgcccc accacgtctg	480
cggccccctt ccagacgctg ncanttcctt tccctttgct ct	522

<210> 481

<211> 515

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (432)..(452)

<223> n=unknown

<400> 481	
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ttacttggaa aatatgcaat cataagctat tttgttggtta ttgttatttt actaccaaag	120
cttattgttt cagagcccct aggtgaccag gcaaaatggc agttccttcc agctggctct	180
cagatgggca catctattag cctctgctct tgtaagaagt tagctgcaga acccacatgt	240
gaatccttgt aggactctgg agaagatcaa atgggagctt agatgtggaa gctctttgga	300
aaccaagaaa cactctgaaa atgaaaaggg tggaagagta aactgttctt gtttctccat	360
cttgacagga agcagaagtt ctcccttagct gatttttctt cttgccttat actgggttct	420
ttaacaccag annnnnnnnn nnnnnnnnnn nnggaatctt ccagaaattc atgaagagac	480
ttcagggcag gaaagcctga actttctcat ccaac	515

<210> 482

<211> 286

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (279)..(279)

<223> n=unknown

<400> 482

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cataagatta ttgggtcaag aggacattag catttaaaat tttaacatac atgttttaaaa    120
atagaaataa aattagaggt tgaaggctct tgcctccca tccacagtat atgggaatgc      180
ctgagtctca ttgtatcttt gcagttttgc tcaagtgatg gctgaaaacc agtatttcat     240
ttttatttta ttctgaatgt cacacatttt ttatttcgnc cagatg                    286
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<210> 483

<211> 237

<212> DNA

<213> homo sapiens

<400> 483

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ctccacaca aagcaggtgg cctcgatctc cgagccctca gatcgttgtg catccgtctt      60
ctgacacaca cacctgcctt gggctcttaa ggacttgggt ggactgaggg gtgggagatg    120
ccaactctga ctgaacgatg cctgcagagg aatcaaaggt gccacacacg gcaatcttct     180
ctctgttttc tgcacagcgg actgccaag cctcgggtca ccagcaacaa ctccaac        237
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<210> 484

<211> 496

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (8) .. (68)

<223> n=unknown

<220>

<221> misc_feature

<222> (195) .. (224)

<223> n=unknown

<400> 484

gcgggacngg gaggtgntag atgtagaatg aaaantcata tatttatgag agagggttatt 60

ttaatggntg aattatttgt gtcacagctc agctttttgg aagacaaact caaacaccta 120

taatttcatt tatattttcta attcacttgg aacctttctg ctttatggta cctagaaaat 180

gataatttgt gtaanccaaa acttctaana tnaatngctt aatncttgaa atatgttatt 240

ggaaaatttt aagcagtgt taaacaccat taaattatta tgaacttgta attcagaatt 300

gagtaaagaa atattttttc tagtccttca tatattgaaa acttgccaca tgacattgta 360

tcgtcttcat tttccagaag atgcgttggt gtgccatagg gttctaactt ccttgaaaat 420

aggtttttta gtcaattgta aatatacgta ttattgttaa aaagtaactt taaactgcc 480

cacatagctt tcaaac 496

<210> 485

<211> 466

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (92) .. (158)

<223> n=unknown

<220>

<221> misc_feature

<222> (272) .. (272)

<223> n=unknown

<220>

<221> misc_feature

<222> (373) .. (452)

<223> n=unknown

<400> 485

caaacatcac accaaagatg agggtagcga gcaactggct tgagcagaca gaacggggaa 60

gactccactc tgtcccgagg ggccagccgc antacncca gggccaccct gccctgaggt 120

ccttgtgtgg ccgccctggc ttggcagccc tgcccacnct gccccgcaa acaatggtgt 180

gtgcgttttt acagcccttt ttaggaaccc aatatgggca taaatgtaac acctatagcg 240

ggggcagatt ctctgtatgt tcagttaaca anttatttgt aatgtatttt ttagaaatc 300

ttaaaattgc ctttgcactg aagtattttc atagctgttt atatctcttt tattcattta 360

tttaacatac tgnctaattt taaaaatagg ntttnaaag ctttcatttt taagggtatg 420

gnaattttgg gcactttaac atttagattc tngtgagagt ttgact 466

<210> 486

<211> 378

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (44) .. (70)

<223> n=unknown

<220>

<221> misc_feature

<222> (321)..(347)

<223> n=unknown

<400> 486

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ctgaagaagc gcattctcaa catcaaccgc tacctgacct acancctcta cancaacgtc      60
tgccgcagcn tctttgagaa gcacaagctg atgtttgcct tcttgcctgtg tgttcgcac      120
atgatgaacg agggcaaaat caaccagagt gaggggcgat acctcctgtc tgggggctcc      180
atctcgatca tgactgagaa tccggcaccg gactggctgt cagaccgggc ttggcgagac      240
atcctagcac tctcgaaact gccaaccttt tctcctttct cttccgattc gtgaagcacc      300
tctcagaatt ccgggtcatc ntcgacancc ttgagcccca ccgggangcc tttgcctggc      360
atctgggacc agtaccta                                     378
```

<210> 487

<211> 258

<212> DNA

<213> homo sapiens

<400> 487

```
tgagtctagt agtccagggc acagatgagg gccacaccac gctttatcca gtgtcgctgg      60
ggctgatggg tggggatctc cacagcaatg acatagttgg tagagtgtcc tgtggttgat      120
agtgttccag cagcagtcag tgtctttag atggggcaca ggtaaaagtc ctggtcctgg      180
gccttgcggt tgggtgttgg caagagccag ataacggcca tctctgtgta cagctccttg      240
ggctgagact cagccagc                                     258
```

<210> 488

<211> 321

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (14) .. (317)

<223> n=unknown

<400> 488

```
ggaacctgta ctgnacagac acaggtcgaa ataccatnga ggcgtccang ctggatggtt      60
cctgccgcaa agtactgatc aacaatagcc tggntgagcc ccgggccatt gctgttttcc      120
ccaggaaggg gtacctcttc tggacagact ggggccanatt tgccaagatc gaacggncaa      180
acttngatgg ttctgagcgg aaggtctntca tcaacacaga cctgngttgg cccaatggcc      240
ntaccctgga ctatgatagc cgcagatcta ctgggnggat gngcatctgg accggatcga      300
gagtgtgtaa cctcaantgg g                                     321
```

<210> 489

<211> 102

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (3) .. (97)

<223> n=unknown

<400> 489

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ccnaanatac tgaacataac cggnaaaata ncnccagaaa gtccaatctc nccagntgt      60
aacgnnaaaa ccacnacaca tgagcanggg agaatcnctt cc                          102
```

<210> 490

<211> 416

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (383) .. (393)

<223> n=unknown

<400> 490

```
cctgttttag aaagttatgt gattagatgt gcaaaaatag catctatattt cacttgcttc      60
tctgctgagt tcttctttgt gcatgtaaac tagccaggct ttctctgcta gagatggcca      120
tcccaacatg gcttttgctt actccttcta cccagtagac ccacctcttc catatcagga      180
ggagataatc atccattcca tgccgagaga gggtgagtga cagctttggg ctgtccatcc      240
tcctgcctta gtgctcagga ccctggggag aggagcagga agcccagagc ttgagaagca      300
ggaggaggtg ggggcaggct gtgagctgac acctttcaca cctcgcttct cttttccttt      360
cagttatattt aaaaggaaga gcnacaaatt gtnctttctc atttccccta tatect      416
```

<210> 491

<211> 425

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (22) .. (412)

<223> n=unknown

<400> 491

```
gcagggtggg gtteccccca tntgaccctn tanggctctg gggtgactcn ttcttnnttg      60
ggntcanang tggagctgat atttgttcct ccngttgagc cctgctnccc ctggnncttg      120
gcgttntcag tgtctccana cactanance acgttctnctn nataattgat gttgaancag      180
ttgacntggt catccccagg actcaggtaa cancanaggg cagggtctng ccanatgtta      240
cgtnggggac cacacanntc attgatnaag gttaatttct cctnntntgc ncagcaggcn      300
tgttctggaa atggcaggtc acagcaccgg gcagtcatgt tgtggatcan cccangaata      360
tgtttatgct tgggtganna ctcttttggt tcncagang tggcccatna angttggggg      420
tgact                                             425
```

<210> 492
 <211> 384
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (242)..(340)
 <223> n=unknown

<400> 492
 gaatggggta aaacttaaga aggtccaaga gcggcagtag aaccctttgc ccattgaata 60
 tcagctcacc ccttatgaga tgttaatgga tgacattcgc tgcaaaagat acaccttgcg 120
 aaaagtgatg gtgaatgggtg atattcccc tgggttaaaa aagagtgtc atgaaatcat 180
 cctcgacttc atcagatcca gacctccttt aaatccagtc tcagccagaa aactgaaacc 240
 anctccacca cggccacgga gnetccatga aagaatatta gaagaaatta aagcaganag 300
 aaagctgcgg cctgtatcac cagaggagat tagacgtagn agattagatg tgactacccc 360
 tgaatctaca aagaatcttg tgga 384

<210> 493
 <211> 513
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (19)..(71)
 <223> n=unknown

<220>
 <221> misc_feature

<222> (446)..(497)

<223> n=unknown

<400> 493

```
tttaaaaagc acattctcnt angnntatat ttatatacat atacaaatac catttccttc      60
ccccttgtn c ncttctgggt agtcatttta aaaactcaag cctgggggtca tcaaaagggg      120
tagatttata ctcccaccta actgtctgga gtatagagtt cagatagtct cttaggaagt      180
\ tttataaatg agattcaccc agtacaattc tgaaagctct taaacaggag tctttaaaat      240
aatgtaaaca cttaagtaat caataagggt tctctgggtg cccactttta catgcaaata      300
cagaccaact gttaacatgc attatttttag tcaactggta aagtttattt cataagtata      360
agtaatttta agcctttttac taaactgtaa atttcaatcc attaaaaact actaccggag      420
cagttttgag gtattactgt aatttngtat agaaatgtta ctgtattntg atgtgggtga      480
aatgcagccg tnatgcnttt catgaaacgg tgc      513
```

<210> 494

<211> 441

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (388)..(428)

<223> n=unknown

<400> 494

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tgccacctgc cccaggtct gcgtagatgg tgaatgtcat atcctgggta gagtggtgcg      60
gccagggccca gatgggggtcc cacagagcac gtccttggt atcctgctgc ctttgctgct      120
gcttggtggct gcaactggcg ctgcactggt cttcagctac tggtgggcgga ggaagcagct      180
agttcttcct cccaacctga atgacctggc atccctggac cagactgctg gagccacacc      240
cctgcctatt ctgtactcgg gctctgacta cagaagtggc cttgcactcc ctgccattga      300
tggtctggat tccaccactt gtgtccatgg agcatccttc tccgatagtg aagatgaatc      360
ctgtgtgccca ctgctgcgga aagagtcnat ccagntaagg gactggactc tgcgctcttg      420
```


gctgaggnca aggatgtgct g

441

<210> 495

<211> 441

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (319)..(395)

<223> n=unknown

<400> 495

gggtcagtgt tgggtgtggtc actgctgagt ccactgtgcc cagaagacag ggtccacagc 60
aggcactcca taaatacatg ttgcaggact gccctcactg gctcactctg tggagtgagg 120
gacctaatgg gccccattta cctattgcct ctgaaagtta aagggcagga acaagggtgga 180
gggccactgc cctctggcct ggcattggccc agaggcagct tgggggttagc tcaaggcagc 240
taagcaggtc cagcccaaga actaagtcaa gtgggccgag gaggtctga gagtggccgg 300
ggccggcgta cattccctng catgggtgag aactgcccgt gttcttgacg cacattcatc 360
tcatgcgagg tgctggggcc cnagttcatg taggntgctg gcagctgcac ataatgggtcc 420
ccaagcagtg cagacactat c 441

<210> 496

<211> 359

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (2)..(353)

<223> n=unknown

<400> 496
 cnttttcaac cnccttaaaa ttcnctcgng ccccanagga agcncttgga ntaaagcnca 60
 gaaagtcatt acnaattcta tctggaancc agaaaataag gngganccaa agatgacncc 120
 aaacttgga nactgggnan actggatggt gatgctgttg accanaatag gtaatagaag 180
 aggagtntca gggttttaact ganagggagg cttaggntgg tganaanaan ttcagcttta 240
 nacttnttga ntttgaggng cccatgaagt ctaagnggag ctatntaaaa ggcaggngga 300
 aatgcgaatg tggantttctg gaaaggaatt tgggattnca gtgtaaactt gnnttactt 359

<210> 497

<211> 494

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (31)..(31)

<223> n=unknown

<220>

<221> misc_feature

<222> (267)..(336)

<223> n=unknown

<220>

<221> misc_feature

<222> (476)..(476)

<223> n=unknown

<400> 497
 ataggtagag gcctttccta cagggctctga naaggccacc atggtcattt cttcccttct 60
 gtcaaacata attcctcggt ttggccttcc cacctctata ctgtctgata acagaccagc 120
 ctttattagt caaatcagcc aagcggtttt tcaggctctt agtattcagt gaaaccttta 180

tatcccttac agtcttcagc cttcaggaaa ggtagaacgg actaatgac ttttaaaaac	240
acacctcacc aagctcagcc accaacntaa aaaagactgg acaatacttt taccactttc	300
ccttctcaga attcaggcct gtccttggaa tgctanaagg tacagcccat ttgagctcct	360
gtatagacgc tcctttttat taggccccag tctcattcca gacaccagac caattggatg	420
tgccccaaaa aacttgatcat cctactatc ttctgtctag tcgtactcta ttcacnattc	480
tcaactactc atac	494

<210> 498

<211> 249

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (19)..(19)

<223> n=unknown

<400> 498

ttcctgcctt cttatattna taagaaaaat aaaacaaaat agtgtcgaag tggtggggca	60
gcgaaaattt ttggggggcg gtgtggagag agagaatggg cgatgtttct cagggctgct	120
tcgagcggga ttggggggcg cgtgggaacc tagagtggga gagattaagc tgaagggagg	180
tcttgtggta aggggtatat tgtgcggttg ttagaagaaa cattcgtcat ttagaattat	240
tggtgatga	249

<210> 499

<211> 390

<212> DNA

<213> homo sapiens

<400> 499

gccttctccg tctatattat cactaccaag gacaggttac aacaacctca gtttgacttt	60
ggcaagttat aatcatcaga cctcgcagat ctacgagctg gcagccctcc agatcagata	120
atgtacctta tttgttttca agcctgatgc agaaaagaga aagggttaa taagatcctt	180

```

aaaagagtgt gtttttccaa aaggagccgt caggtgggga gagggcaggg tggccgtggc 240
tcctggctgc tggccccaaa ccagtcctt gtgtgggcct ggaaaacttt tttggcctca 300
gggccatacc tctttctgct ttccttggat tccattgctt ttgcattcaa caaacaaaag 360
ggtctgtgtg agatacttgt taagacatgt 390

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<210> 500

<211> 344

<212> DNA

<213> homo sapiens

```

<400> 500
atgcaaaagc aatggaatcc aaggaaagca gaaagaggta tggccctgag gcaaaaaagt 60
tttcaggcc cacacaggga ctgggtttgg gaccagcagc caggagccac ggccaccctg 120
ccctctcccc acctgacggc tccttttggg aaaacacact cttttaagga tcttattaag 180
ccctttcgct gttatgcac aggcttgaaa acaaataagg tacattatct gatctggagg 240
gctgccagct gctagatctg cgaggtctga tgattataac ttgccaaagt caaactgagg 300
ttgttgtaac ctgtccttgg tagtgataaa taggacggag aagg 344

```

<210> 501

<211> 436

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (13)..(13)

<223> n=unknown

<220>

<221> misc_feature

<222> (184)..(184)

<223> n=unknown

<220>

<221> misc_feature

<222> (331)..(406)

<223> n=unknown

<400> 501

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ggaaggggag gancaggcca cacaggcaca ggccggtgag ggacctgccc agacctggag      60
gtggtgactt ccaagagtga ctccgtcgga ggaaaatgac tccccagtcg ctgctgcaga      120
cgacactgtt cctgctgagt ctgctcttcc tggccaagg tgcccacggc aggggccaca      180
gggnagactt tcgcttctgc agccagcgga accagacaca caggagcagc ctccactaca      240
aaccacacc agacctgcgc atctccatcg agaactccga agaggccctc acagtccatg      300
cccccttccc tgcagcccac cctgcttccc nmatncttcc ctgaccccag ggggctctac      360
cattctgcc tctactggaa ccgacatgct gggagattac atcttctat ggggaagcgtg      420
acttcttgag agtgac                                     436
```

<210> 502

<211> 504

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (454)..(485)

<223> n=unknown

<400> 502

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gtccctatta gctaaaagcc cattaagaca agaaacacag gaagcccctg gtcccagaga      60
agaagcaaag ggccaggtag aggcagaaag ggagtctttg gatcctgtcc aggagcctgg      120
gggccaggca gaggctgatg gagatgttcc agggcccaga ggggaagctg agggccaggc      180
agaggctaaa ggagatgccc ctgggcccag aggggaagct gggggccagg cagaggctga      240
aggagatgcc cccgggcccga gaggggaagc tgggggcccag gcagaggcca gggagaatgg      300
```

agaggaggcc aaggaccttc caggggaaac actggagtct aagaacaccc aaaatgactt 360
 tgaggtgcac attgttcaag tggagaatga tgagatctag atcttgaaga tacagggtacc 420
 ccacgaagtc tcagtgccag aacataagcc ctgnagtggg caggggaatg tacctggggac 480
 aaggncattc tgtgcccctg ctgt 504

<210> 503

<211> 531

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (4)..(32)

<223> n=unknown

<220>

<221> misc_feature

<222> (311)..(449)

<223> n=unknown

<400> 503

actnacgntc tccctnnccn gcacaganag nnctgatacc tactgggacc aggcaggggg 60
 cacagagatg gtccttgtcc cagcgtacat ttccctgcc cacttcaggg cttatgttct 120
 ggcaactgaga cttcgtgggg tacctgtatc ttcaagatct agatctcatc attctccact 180
 tgaacaatgt gcacctcaaa gtcatttttg gtgttcttag actccagtgt ttcccttgga 240
 agttccttgg cctcctctcc attctccctg gcctctgcct ggccccccagc ttccctctg 300
 ggccccgggg natctccttc agnctctgcc tggcacncag cttccctctt ggcccnaggg 360
 gcattctcct tagcctctgc ctggcctcag cttccctctt gggcnntngn anatctnatc 420
 agcttgntct gccccagnt cctggacang attcaaagat tccttctggc ctctaactgg 480
 ccctttgctt cttctctggg aacaagggtt ttctgtgttc tgtcttaatg g 531

<210> 504

<211> 387

<212> DNA

<213> homo sapiens

<400> 504

```
gggatttgcc cccatgatct acgcagctcc tgccaagccc cacctcatta catttccaca      60
tgagatgtga gtgtggacaa atgtttaaac tataaggata aaaagcaaga tctttaggag      120
ataagcatag agatttagga gattagccta cctgtcatgt tcaagtttct atgtaggact      180
catatgatat agacccttgg gccaaacttta ccctgttgca tgccccgtct ctcacatgcc      240
ttcgagtga c tggtatgtag tgatgatttt atcagtgagg atcctggtag taataggtgg      300
atTTTTTTTT tctTTTTTgaa gatagtttat tgaagggact gttttcagag gtgtgaccat      360
ggtttaagat aaccaagaaa ggatgat                                          387
```

<210> 505

<211> 303

<212> DNA

<213> homo sapiens

<400> 505

```
gtgggtggtt ctagcaagtt tttatgtaca tttattatgg ctgctacgtt tttagatcta      60
catgtatctg gttgatgtaa aatcatgact ctctatgac ctgttctaata ctaagcttgc      120
cagcagatgg gcttacacct aaaataagac cagcttctcg cctactcatt ttctgttcaa      180
atcctccttt atagtaggat gaaaagctag gagttgaaat cttctttgca gtttctgtga      240
taacttggtc tagagggttc cagatccgaa atgcgtagga cctgcaaata caagagctgc      300
aac                                          303
```

<210> 506

<211> 504

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (49)..(49)

<223> n=unknown

<220>

<221> misc_feature

<222> (266)..(424)

<223> n=unknown

<400> 506

```
aaaaaacaaa acaaaacaaa aaagtgttat ttataggaat aagaactana atgccttggt      60
aatatattgt tttggcattg ccaaatttag cctatttgag tgcattggatt gcatttgggg      120
attgctgttt tcttttttgt tttgtatggt tgctttagat gcgtagacag agggagtgga      180
gtaaggcttt acagagatta ctacagaagg catttttttt tttcataaag aggggaaaac      240
gcacccatct cataacaaga atttgnggtc naaacgagac annnnnnnnnn nnnnnnnnnn      300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntttt cncatcagca      360
gaatgaaagc gttggcctan agacacccat ttaaatcccn cctccaaata ctcatctggt      420
cganattttc tcagtgtcta ctaagcacia tcattgttaa taaacactat gattcttgga      480
gagctccaaa tcgtgtctct gctt                                           504
```

<210> 507

<211> 557

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (428)..(428)

<223> n=unknown

<400> 507


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aaaacggcct atccacgccc agcttttccc tttggtggct tctccaggcc cagaaattcc      60
tcagttcggc ttcgcaaggt gaagttgctg cctccctgtg ctttctccag gccagttct      120
tcctcccagc tgggtctaca gtcccatctc ctgactcaaa acaacctatt ttggctcggc      180
tcctgccagc cacctggcgg cctttgtagg cctaaagctt cctcaagtca agcgttccag      240
gccagatca tgctgccagc gggccttcac aggccagct actgcctgac gatggcttcc      300
ccaggcccag gtccttgctt tccccagcc tcccaggcc cagcccttgc ctcacagttg      360
ctttcccagt ccacgttaca gcctgttacc cgacggcctt gacagaccaa actcttcctt      420
cacactgncc agtttaggac aagctcatac gtcttcagc ctctccaggt caagcttcct      480
gcctcacact ggcctctata ggccagggtg tgaatcgcaa tggctgtgtt aagtcacctc      540
atgcctttct caaactc                                     557

```

<210> 508

<211> 409

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (113)..(150)

<223> n=unknown

<220>

<221> misc_feature

<222> (151)..(405)

<223> n=unknown

<400> 508

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tccatcatga taaagagttc aattctctgt gaaaacataa tcataaatgt atatatgaac      60
ctacctaaca agagctcatc aaaatatgtg aaacaaaaat tgatagaact gcnnnnnnnn      120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnncaaggt      300

```

cacatagaat cttcatcgag atgtaaaaca atcttgagca taagaccact ttaaccaa 360
 taanaaataa caggaattat atanattata ttctcagact ataanataa 409

<210> 509

<211> 543

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (446)..(446)

<223> n=unknown

<400> 509
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 agggatgacc tcttagaaga tgtataccta cactgagcca tcaatgctga ttaggaattt 180
 ggcaggtaaa gagaggtgga gaaaggaaaa aacaaaaaga aatggcacat gtgaagaatg 240
 gcctattcaa ggaaaagaaa ttgattatgg gtggtgtagg gggacagata ggacaactag 300
 gaaagactag agaggcagcc atctgcagag catacagtgc catccaggcc atgtaaaaag 360
 tagagcttta ctactaagaa cacttgggaa gctattgaag aaatataggt aggggagtaa 420
 cgtgataaat ttgcatttta gaaagnttat ttaggttgta gaatgaagag tgggttgag 480
 gggttaagaa tttgaataga gaaattagt gaaaaatgtt gtaaccccaa ggaagggtga 540
 tgt 543

<210> 510

<211> 533

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (257)..(510)

<223> n=unknown

<400> 510

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tatttctaca aacctatgga tatactatca atatatgaat atttgctgca gttttgtgta      120
taataattaa aatgtaatct aaaggccatc attcaggact ggttaaataa agatacatcc      180
atgtatcatt atacagtggg gcaggagata aaaatacaat caatctttgt gtttttaagg      240
gcaccagata ttttttnna gtaggtagan aatgggtcag gnaanntccc ttttctgnac      300
nttcnaaagg angaatacag aatatgcanc ngtnnttgnt tnggatactt nagatgactc      360
tattgctagn ggtattttgt agtattaggg aggaatgcac agtgaggaaa gttacttttt      420
attccatana attaattctat actatactat ttgaacatat gcatgtcagt aagggttgca      480
ttgtctttnt acttttatgc actgaanach atagttgtta tttcaaaaat ata      533
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<210> 511

<211> 544

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (140)..(356)

<223> n=unknown

<220>

<221> misc_feature

<222> (514)..(514)

<223> n=unknown

<400> 511

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ataatctaaa agacaaaatt acaaacatgc tatgtgaccc agtttctagg acttaacttc	120
cctcttgaca taataaattn nnnnnnnnnn nnnnnnnnnn nnnaagacag gatcttgctc	180
tgttgcccaa gttgacctaa taaatttcaa gagtcctaaa attttctttt ttaagacaac	240
atatcactgt gctccatgat tgatagtggg gctccgtggt ttctgccagn nnnnnnnnnn	300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnngctg	360
ttcccaaagtg acctttcacc cagtgaacta gcatttaatg aggaatcttg cctgaatccc	420
ttatttcttg ggacaaagtg ttaattttct aattttatca ttccctcaac atttattaat	480
aaattattta ttagcaagca ttcttctgga gggntttcct ctttgattta ttttttatca	540
gtat	544

<210> 512

<211> 457

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (89)..(89)

<223> n=unknown

<220>

<221> misc_feature

<222> (93)..(452)

<223> n=unknown

<400> 512

gcaaggtggc ggccatctgt ctgaggctgg gaatctgtct ccagccaagg ccagagacag	60
gcacgtccaa ggaggagggg ttggggcang agngctatgc tgaagggatt ggctnnacat	120
anatattcaa caggtaanag gnggagctat gnatattcat taaggtgggc ctgacacatg	180
ccctcttatt gagcanagca tgtaatatat gacccatgtt cactttgggg tggagactta	240
acatttacac atcttacaat tagggccttt atggcanaac gtcttttcag gacanaaagg	300
catgcangtg catcatctct ctctaataac gggtcagctg gncggcatgg tcagctggnc	360

nnngnctct nattananna atgtcnctgt aatnagtntc tngtcnaatn ncagctgcta 420
 tggctggtga nncagantca gttagttgnc anctagt 457

<210> 513

<211> 535

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (197)..(197)

<223> n=unknown

<400> 513

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 tgtggttcat gaagcgagaa taatttcctt ttgggccggc atcaattata cggctccttca 120
 gaaagaaaag aaaagtaact ttacataaa ttaagtctct ccagaaaca tccaactcag 180
 tcaaggatca caggcancag cattttgcta ccaactggtg ttgacaact gacagatcag 240
 gaaatgtgag gctgcctggg taatttacta agttctctcc tttatttgat gaccttcaag 300
 tcaaagtaat taggataaag tgggatttag ttgcttttta agtttgcttc tagaaacaaa 360
 tagaccatgg aataatgcta tttagaagat tagtgggcca gaggtttagg aatggtattt 420
 tctgattaga gatctcaaag ttctgataac tgctctgttg ttttgctgtc agccttcctt 480
 ttccgctcca agcaggaagc aaaactagta taggaggggg tacatgagag cttag 535

<210> 514

<211> 112

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (24)..(110)

<223> n=unknown

<400> 514

aagattggta agtccttata gagnntattg acctagattg aatgagcagt gcttttnagg 60

tnnnaagggt aatgattatg taattatana cacaanatgt tgnatgtncn at 112

<210> 515

<211> 485

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (271)..(468)

<223> n=unknown

<400> 515

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ccagcccttt tttgccattc cttcctactc tggtcagtag gaggcaaag agagggctca 120

gcaaaagccc cacaagctca ttcttctaag gcaggcgtga tcaaggctgc ctgattgtca 180

ctgccaaactt ctgtgaccaa ggtagacctc ttctttctcc tgcaggagac tgcagtccgg 240

gcaggggagc tggaccaggc tctaggacgg ncttcaccc taagcatcag taaccagta 300

tggggatgat gaggtgacac acaccttcag acagaaagtc ggaagcact gcagagctgg 360

atggangctc tgtggcagct tttctttgac atgagtaaga gagaaggggg ctgggttgaa 420

cctttinggaa agaactggag tttgtcattt ttactaaaag gcctctgntt caaagattat 480

gtgga 485

<210> 516

<211> 295

<212> DNA

<213> homo sapiens

<400> 516
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 ccccaggaat gaggccctcg gtaccatggc aaccacaatt taagaggggc ttctgcccac 180
 ccctgcagcc taccacaggt ccagcagagg aacaggaggg cagactggcc aacttgctat 240
 aaacagcgcc gtatccagag cccaactgcg catgggtcat tttctcttct gggca 295

<210> 517

<211> 449

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (442)..(442)

<223> n=unknown

<400> 517
 atcacattgt acagtgtggg acatctgaga agcagagagc ttataacata tacttggcaa 60
 taagtcacaa aaacattcgt attttttaaat aacatttttg aaggagaaaa atctgttttt 120
 caataaattc tggcgtgggt tccctccaga ttttatttct catttaaaat gaccttgggg 180
 tcgattcttt tcttcttctg ttcgttggct ctttacgagg tctttgcctt aaacagatac 240
 attttagaga tggattaataa aggggactag ctcagagca tagaattccc gatttccttc 300
 tgtttccact tctgatgagt tgtggcagca ttaacaccaa tgtaacttaa ttttacagaa 360
 atttttgtag tcggtgctac tcataatcag gtaaaattat cttcaacaca tttctttggt 420
 accgtaatat atttggcttt cnttgtgga 449

<210> 518

<211> 430

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (12)..(418)

<223> n=unknown

<400> 518

aataataggg gnaactatgt aatgtataat aaattcagag ttttaccaat aaaaatagtg	60
gcaacctacc actttangag aaagattctg caatttacac aatnatgtat agaaataaaa	120
tagtccacaa agaaaagcca aatatattac ggtaacaaag naatgtgttg aagaataatt	180
ttacctgatt atgagtagca ccgactacaa aaatttctgt atcattaagt tacattgggtg	240
ttaatgctgc cacaactcat cagaagtggg aacagaagga aatcggggaat tctatgctca	300
tgagctagtc cccttttttaa tccatctcta aaatgtatct gtttaaggcn aagacctcgt	360
aaagagccaa cgaacagaag aagaaaagaa tcgaccccaa ggtcatttta aatgagnnat	420
aaaatctgga	430

<210> 519

<211> 372

<212> DNA

<213> homo sapiens

<400> 519

ctgaaatatg tcaggttgaa tcaataatag agcacaccag aactcttggc tccatttcaa	60
cctaaactat tcagttctca tcaccccgaga ggaaattccg cctctgtgct ggtcagtaat	120
ccccctggat tataaaagtt taactaactc actgtgcaca aggcacggcc attgccaaca	180
ttctcttgca aggtattttc ccaagccctt acccaattct gtttccatga ttgtgacatt	240
ggggattaat tctgcaagac agaactgttt atattctgta ccttaaaaac acatgcaaac	300
atctcttgct taagattctg gcttcctatg gccagagtc ctagaagtgt ttgatatttg	360
tagcagaatt tc	372

<210> 520

<211> 478

<212> DNA

<213> homo sapiens

<400> 520

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cctgacctgc tggacactgt taattgggat gaggtcaaag aaggcatagt taccacattt      60
gcaggagacc ctaacctgga aatagtaaat tacataacat tctttcaagt gtctcctctt      120
ttaaaaaagt attttgatat agtttcacac agagaaaact tgcaagaact cttgtatatc      180
ctttaccagc attctccaac tgtcaatact ttgtccatt tactatttgc tttagacatt      240
ttgagatttg tttttgaacc atttgaggaa aacatcctac ctttctaccc ataagtactt      300
tttcagtgtg tacatcttaa gaatcaggac tttctcttcc ataaccacag tccatcagat      360
gcaggaaata agacaataat gcaatactat gacttagccc acagttcatg ttcaaactct      420
accgatcacc atgcctcttt ggtcttgctt aatctgaaac agtcagattt tattggac      478
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<210> 521

<211> 252

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (10)..(246)

<223> n=unknown

<400> 521

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attagaagan acgntaatcn ngcaaaatca ccattttgca accatcttgg taattgattc      60
agcaanaatc atcaattgag gctgaaacta gtaggtgaaa gnttgatnag gaacaggata      120
cttagtttca aagtatccct ccagaaatta cttattanaa ggaaaaacag tatcttcaca      180
atgcggaaaa cacnacctta actgnnaaaa gttancagca gcanggaaag ngcagtccca      240
catcnngggc cc                                                                252
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<210> 522

<211> 347

<212> DNA

<213> homo sapiens

<400> 522

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acgagctctg ctttctccgc gccaatgaat gcaagaccgg cttctgccat ttgtacaaag      60
tcaccgccgt tttaaaatcc cagggtacg attggagtga gcccttcagc cccggggaag      120
gtgagcagag cctgacgaat gctgtcgact catcgcgta gtcacgtgtg gttcaatatg      180
ctgtttgttc attggtcggc cccccactc agccagcaca ccctgcggga gaaggaacag      240
ggatcggcag gaagccagcc ttccccagtg actgcatgat ctggcagggc ttagagcacc      300
caactgttgg cttattcagg cagcagattt actgagcact cccctgt      347
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<210> 523

<211> 320

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (23)..(312)

<223> n=unknown

<400> 523

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tgaagccagt gcttaaaaaa aanaactcta atcaaattta cccccactat ataatattta      60
ccattatacc aaccanactt atacaataat tactcttgaa aaataagtag actgtaatat      120
ctaatcaatt gcaaaatata atagattgca accaatttgt tancaacaag aaaaaaaact      180
cccctaaaga gcttgaacct tcataataat ttanagaatt ctgnntaact taatatacaa      240
gaaaatctgc tgtggataag gnattgcntt atgnncccn nntctatcct cagagaanaa      300
ggcaccaatc nntaacatta      320
```

<210> 524

<211> 495

<212> DNA

<213> homo sapiens

<400> 524

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acatggagat gtgtacatgc gtgattgaca aagctacaga gcaagagaga ggataatagt      60
ggtaatgaga aggatgagct cttggatgac ttctagtttt ctgggttcca tgctaagggtg    120
gatagtgact tccatttata aattagggaa tataggaaga tgcacgtttg ggaacaaaag      180
atgagatggt tgggtttttga atggttgaat ttgaggtacc tgtggaacca tatggaaatg    240
cctgctaggt agttggatat accagtccag agtcagagaa gttgggactg gagagagatt      300
tgaggagtcag cagtatagta gtatatacgt tgtagttgaa gtgatggttt gggtcagcta    360
agaggcatgt tgagactgaa gagctgcagg ctgaggagag gacttagaga aactggtag      420
ttaaagggtg gactggtgga agtggagccc cagaagaaat ctgaggaggc ctaaagatag     480
atggaaaact agtaa                                                         495
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<210> 525

<211> 401

<212> DNA

<213> homo sapiens

<400> 525

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tagtattggg attacgggag tgagcactgc gccaggctt tactagtttt ccatttatct      60
ttaggcctcc tcagatttct tctggggctc cacttcacc agtcacacct ttaactacca    120
gtgtttcteta agtctctccc tcagcctgca gctcttcagt ctcaacatgc ctcttagctg    180
acccaaacca tcaattcaac tacaacgtat atactactat actgctgact cccaaatctc     240
tctccagtcc caatttctct gactctggac tggatatccc aactacctag caggcatttc     300
catatgggtc cacagggtacc tcaaattcaa ccattcaaaa accaaacatc tcattctttg     360
ttcccaaaac gtgcatcttc ctaaattccc taatttataa a                          401
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<210> 526

<211> 511

<212> DNA

<213> homo sapiens

<400> 526

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aaaaaacctc taagatatta tcttccactt ggagaagagc aacatgcatt aaaaaaatga      60
cagttctctg gtgaagaaac aaaaagggtga taaaatatgt aacaagtaca gagttagcat    120
ggtggtgagg gcagtagcgg ggaggtaaat attccaggga gaaaaccttg aaggcagatc    180
atcaggatgg cgtttcaggt ggcatgact gcttttgag aagcagcatg ttgtgcttga    240
ggagtgggat gaaatgctgt ctagatgact atggagtggg aggcagtaag ctggggaggg    300
ggcgggagcc aaaggtagaa cctgtttgcc ttgtctccag tttaatgata aattccaaca    360
agcctgtaca ccacattctc aacttgtaa atccttcagc tgcaattatc actctctggc    420
ctccattaaa tgcttattga tgagaagcct tccccaatag cagaagtctc cctcgttgc    480
tccgtctcac tagatattat tagatgataa g                                     511

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<210> 527

<211> 574

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

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<223> n=unknown

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<222> (490) .. (553)

<223> n=unknown

<400> 527

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tgcnatgtct gggccatata gcaggctgaa ggacacaggn gtgcacattc ccaggatcag      60
taacagggtc agtncacctg taccatgtgt aactcaaatt ttgcttcaac taagtaccct    120
cccaagccaa acccagcgaa atacagtgat agggctaaaa tggaatcact ccagggatcc    180
accaggacaa taaactggct ctaatttgag tgcaaattct atcagacaca aggcaagatg    240
catgctataa aagtgtccca tctgccctta tcattctaata atatctagtg agacggagca    300
agcgaggagg acttctgcta ttggggaagg cttctcatca ataagcattt aatggaggcc    360

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agagagtgat aattgcagct gaaggattta acaagttgag aatgtggtgt acaggcttgt 420
 tgggaatttat cattaaactg gagacaaggc aaacagggtc tacctttggc tccccggcccc 480
 tccccagctn actgcctccc actccatagt catctagaca gcatttcac ccacttcctc 540
 aagcacaaca tgntgcttct gcaaaaagca gtca 574

<210> 528

<211> 480

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (23)..(217)

<223> n=unknown

<220>

<221> misc_feature

<222> (467)..(467)

<223> n=unknown

<400> 528

agctgattag attaatttat tancnaçatt caattaatct aatcagctgt aaaacaggag 60
 agggcagcag attagattaa ttgaatgtgg ctaataaatt atgatatggc aaactcagaa 120
 ttatctgtgt taattagga cagggatagc ctggaaaaat gaattctgca aatgatgcct 180
 ttctctctgg atttgtttct gcagatggtc ataaanaca gcatgtgaaa gcaagttcat 240
 gtcttgatcc ctttctttgt ttcccacatg ctgtcttgca ggtgacaaga aataaactgg 300
 aactgcagta ttagagaaag aggaacatat ttgtctgggc tctttgggtg ataatgattg 360
 cagtcccca ttcacactag ctctttcaga tggagtgtgt gaattagttg tttggtgccc 420
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<210> 529

<211> 65

<212> DNA

<213> homo sapiens

<400> 529

ggccccaacc agtgcaatga cgatggcctc cgtggccacg tagagctgac agagcaaacc 60

tcgag 65

<210> 530

<211> 536

<212> DNA

<213> homo sapiens

<400> 530

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gatcagaaat gttcaattct ttgctgatgg ccgctcagt gttgacagca taggcaagag 120

gcgcttcagg gtgctccatc agagccagcg ggatggctac aacacagccg acattgaata 180

cattgaagac caaaaggtaa ggggtggccag tgccaagaat cccaaagcca ggctatcctt 240

gtaacttgat acacaaagat agttgtgaaa ggatttctca gaacccttga gggccttggg 300

atttcacacc aaattgctgc agcaacattg aatgctgctg gattgctgtc cagttgcact 360

atggcagtga gggcgccctac tgccttggt ctgcttagct gctgagttgc attcatgcat 420

aggaaatggt atcctagatc aaccctgggg ctcatcagc ttgggagtta agtctctgcc 480

aaagattgca aggaatggat ctgggggtggg tctatacata tatattttat ctatcg 536

<210> 531

<211> 338

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (170)..(302)

<223> n=unknown

<400> 531
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gcaggctgat gcctctgttt gacacccct tctgttaaga tattattgcn attagatata 180
tttacaagaa gactcccccc gacggcagtg gggaagggtg gagctcctct tcggcaatcc 240
actcactagt tttngtttcg ggatatgaag gccaggactc gtcgaatacc attcagtctg 300
nncttttaag gacctcattg ctaggaaggg gagctgag 338

<210> 532

<211> 167

<212> DNA

<213> homo sapiens

<400> 532
ggaaagaaca cagccgtgac caccaagaac ctccctggaga ccctttccaa gcctgaccag 60
atccccttgt tctatgctgg ggggattgag atcctgactg aaatgataaa tgagtgcaca 120
gaacaaactt tattcagaat gcacaatgga tttagtatca tcagtga 167

<210> 533

<211> 538

<212> DNA

<213> homo sapiens

<400> 533
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tgatgtattt catcgtagag ttgagaattt ctaggccatg aagctttctc agttgagcag 120
caaactctggg ctcagctgtg cacagttccc cagagcaatg cctgcgttca cctgcacggc 180
cgtcttctgt gtgtcactgc ctgcaagctt taacaagacc tgcaaaaggt ccgtctttag 240
caggggaagac gcaacgttgg gcacctccat gcagttacca aggagaggg cagcgttgcc 300
caccagaacc tcctcctccg agctgagcag cttcatcata acgtcaact ttttatccag 360
tcttattact tcttcccag cttcatgata actattcgtg cagatagcta gtatctttat 420
agcataacgt gatgcagtct cacctcctgt cttcaggaat ttcattcattt tctttaccac 480

tcctgctcgc aagggtcct caacaatttt cagagaggaa gaaaggggtc cgggctca 538

<210> 534

<211> 469

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (411)..(411)

<223> n=unknown

<400> 534

gggaggaccc tgggcaaaga cgcctaccct gccatgctgc gccatctgcc ctccaggctg 60

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cctcccccat gtcttatccg tagacttgac cacatcgtga tgacgggtgaa gagcatcaaa 180

gacaccacca tgttttattc caagatcctg ggcatggagg tcatgacttt taaggaagac 240

cggaaagcac tgtgttttgg agaccagaaa tttaacctcc acgaggtggg aaaggaattt 300

gaacccaaag ccgctcacc agttcctggc tccctggaca tatgtctgat cacagaggtg 360

cctttggagg aaatgatcca gcacctcaag gcttgtgatg tccctattga ngaggggcca 420

gtccccagaa caggggcaaa agggctatcc atgtccacct acttccgag 469

<210> 535

<211> 199

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (20)..(24)

<223> n=unknown

<400> 535
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 agtgcctaag tcttcagtct ttggagatct ctgggcctgg gtggggggtt gcaggaagga 120
 aaggagaggg cgacatcaag ggggacagaa tggaggaggt ccagcctcca tcacgaggag 180
 atgtagttag acacctcaa 199

<210> 536

<211> 555

<212> DNA

<213> homo sapiens

<400> 536
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 cagcttctag taatctgtca ataccattta agtgctctc ccacttgctg tccccagtag 180
 cttctcttcc ctgtgagctg tgactccttg tgtgttagcc tgtgtttctc atttttaagg 240
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 aatagaaacc caaaagtttg tttaaagaat tacttgttat aaaagtcccc cattgttaat 420
 gtacaacca atgatgtaag ttgatttatc gaattgtgca gccatcagca gagttctact 480
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<210> 537

<211> 489

<212> DNA

<213> homo sapiens

<220>

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<223> n=unknown

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tggccagggc acagggctgg tactgaacac agtagggctt ctggggctgc cgactggaag 180
cctcaggggg actccgtggg gaccagcgtg actcctgcca ccaaccgaaa cccaaactcc 240
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gccccagct gaaacacatg gaggggagag aacacctccc agccccacaa gctcagaggc 360
agacaggggtg acccttgctg gctgagacac cgagacacag gcttgggtgg agccgtgggc 420
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<210> 538

<211> 529

<212> DNA

<213> homo sapiens

<400> 538
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gaaatagaaa gaggagtcag tgcagacgat gaagcaaagg atgatccagg tgttctggta 180
cacagttgta attttgacca tggactttgt ggatggatca gggagaaaga caatgacttg 240
cactgggaac caatcagga cccagcagga atcacaaaga tgattaaagg gttggaaaaa 300
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aggggcaaac cattgatggt tttcaagtat atgaagggtt ggcacagaga ggggtggcgac 420
cagctgttct ccatatgcac taagaataga acaagaggaa actggcttag actagagtat 480
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<210> 539

<211> 469

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (113)..(453)

<223> n=unknown

<400> 539

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tactagtagg atcaaaacat cttttgggaa attctatant ttgttacttt nccttgggta      180
agaacatctt taacnatctt aaatagacaa atttttatct aattttttnn nnnnnnnnnn      240
nnnnnnnnnn nttttcacac ttcttttttt ntgaagtatt ctaacaatgg cccctgccaa      300
gaaatgctcc cttatactct agtctaagcc agtttcctct tgttctattc ttagtgcata      360
tggaagacag ctggtcgcca cctctctgtg gccaacctt catatacttg aaaacnatca      420
atggtttgcc cctcagnctt ctcttctcca ggntcaataa tcccagttc      469
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<210> 540

<211> 445

<212> DNA

<213> homo sapiens

<400> 540

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gcatccggac cctctcccca tcccagcctc ccatgccaaag gccgccttg tcagtcactt      120
ccttttgtca tcggcttggc aaacgggaga gaaaacagag cttcatggga aacagcggca      180
acagttggtc ccatacacct ttccccaagt tggagctagg cctggggccc cagcccatgg      240
cgccccggga gctccctacc tgctccatct gcctggagag gttgcgcgac cccatctcgc      300
tggaactgtg ccacgacttc tgcatacggg gcttcagcac acaccgtctc ccgggctgtg      360
agccgccttg ctgtcctgag tgccggaaga tatgcaagca gaagaggggc tccggagcct      420
gggcgagaag atgaagctcc tgccg      445
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<210> 541

<211> 467

<212> DNA

<213> homo sapiens

<400> 541

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gggagccggc acggaagcgg ctgtgcgcat gagcagatga ggcctagccg aggcggcggg      60
acccccaagt ttggaaagct cttttaacgg ctatgcgaaa gttctgtcca aaggctgctc      120
acagcccctg tctgactggt tgtcatgatg aattgagctc tctgttacct gcgcatcaca      180
accgagctga ggcttcgaag acctcagagg acttctctca gcactcacag aaacctccta      240
caccctcgga tggcacaaag ggactgtttt cttactctta gtctgagtga ctgccaagga      300
aggcaaaggt agagcaactg gatctctggc tctccacata gcttctgata tcagacctta      360
ctaaaatgct ttctgggccc aaggacaaag ctcacatgaa caaatgattt tgagtcatga      420
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<210> 542

<211> 429

<212> DNA

<213> homo sapiens

<400> 542

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tgtccgtttt tccatcataa acaatggagc gggggtcagg gggagaagag agtgggtaag      180
tgaatggcca gaaactccag agggggcctc acaccacct gtgaggtacc tccttgcctt      240
acccccactg aggctcagg ccccttgctt gggtcatgct gccccctgtc ggctgctgcc      300
cctgcctctt cctctgagtt ctaacaacac agacactggg gcctgaaagc cctgctgctg      360
ccaggggagt cagaattctg ggctgcctct acttgggaat ctcttcccat gtggggatct      420
tgcagaaca                                           429
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<210> 543

<211> 461

<212> DNA

<213> homo sapiens

<400> 543

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tgggaaatgc tgcttgtctt gaaatacaga attttgatag atcttttcca cttggcctaa      180
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ggtaatatctt gggacagtag tttagagcat gatttggtgt agggttctgc agctacaagt      360
tggcaaaata cttttcagat tcattcattc agaaagtgtg gaatactgta tctgttaggt      420
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<210> 544

<211> 424

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (105)..(123)

<223> n=unknown

<400> 544

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nnntcctttc tccttccttc ctttttttcc ttctgactat atgctgctt tgtgctaggt      180
tccaggctag gctctgaaga catggaactt gccaatcagg acatccaggt ccatggggag      240
agagccatgt actgcaagct ttggctatgt gtttgatgatt ccattcggac cctattgtgt      300
gtgtactttg agtgctgcca gtaccacacc actatctccc ttttctctca aactcagaac      360
tagtttcagt gcctctcttt ttcttgctt tcacatctaa tcagtgccag attctgttaa      420
ctgt                        424
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<210> 545

<211> 62

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (2)..(11)

<223> n=unknown

<400> 545

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<210> 546

<211> 402

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (239)..(239)

<223> n=unknown

<220>

<221> misc_feature

<222> (357)..(381)

<223> n=unknown

<400> 546

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accacacaga tcgaaaaatc tccacaaatt atgagaagaa tgctgaggga agaaagaaca 120

taggtggacc gctgctgagt ccaggcttac ttgcagagat ctatgctggc caggccctgt	180
gctaggcagc agaggacatg gaataaaatc aaataaggtc actgtgtgca ggcaacctcnc	240
ggtgtggtaa aggagcagcc ccattccacag gttctattaa ttccagcctg tgagaattgg	300
aaccacaggg tgaatttttg aggacaggca cttacactaa tctgggagca taatatntta	360
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<210> 547

<211> 305

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (28)..(301)

<223> n=unknown

<400> 547

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atgtaaagca tatatatcag atgaantcct atgagtggaa ttcccanctc aaagcgtaaa	120
tgtatttgna tgtntgncag cgtcctgttg cncatcccaa cccnagaatg natcngtgga	180
ngcttgcccc aggtngtctc cccnatgcct ntnggnannt natgcattat ccagtgnttt	240
nncatttgct aataccaaca ggtataaaat ggnntctcan agtgtnttta tttttnaaat	300
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<210> 548

<211> 101

<212> DNA

<213> homo sapiens

<400> 548

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<210> 549

<211> 123

<212> DNA

<213> homo sapiens

<400> 549

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ggg 123

<210> 550

<211> 106

<212> DNA

<213> homo sapiens

<400> 550

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ttatggcata agttccagtc caaaagctgg caggcttgaa actcaa 106

<210> 551

<211> 383

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (3) .. (3)

<223> n=unknown

<400> 551

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agtcctttat agaaaaaatg tgctgatccc tatttttaaag taaacacttg cctgagctct 180

atcctgggcc tctggggaag ggacccaaac atttgtagtc tgtagaattt cacaagaatt 240
 gtgatataca gtattgagaa tactgggtat gcgtggctgt ttaaagcaga tggacttggg 300
 gtctaagctc tactctacca cttaccaccc tgggcaagtt tcctaacccc tctgagacct 360
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<210> 552

<211> 232

<212> DNA

<213> homo sapiens

<400> 552
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 ttaaagtaaa cacttgccctg agctctatcc tgggcctctg gggaaggac ccaaacattt 180
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<210> 553

<211> 443

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (130)..(130)

<223> n=unknown

<220>

<221> misc_feature

<222> (404)..(431)

<223> n=unknown

<400> 553
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gctttctact gttttctcac agtttcgttt atcagccttg tcttgccaat gatacagaag	120
ctccccgcan gacagtgggt aggtgggagc ttcccgatga tcatgttggt gttgacaaag	180
ctccccaaag tgggggtattc cctcaggctg gtctccggag cgggctctgt gctctgaaag	240
cggcccatcc tgccgtccta gagtataggt gccgtctatc tctgtgtggt gagttatcgg	300
gagatgaaag atttttttca cttggtgaat cctggcattg tgggaagact ctctaacac	360
agacataatc tcttgcaatc ccacaagcgc acacatacac agangcgtcc acacacacac	420
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<210> 554

<211> 310

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (212)..(234)

<223> n=unknown

<400> 554

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ctagtacatg atctccggga cctgaagag cactaacaaa actcctgttg tccacaggtc	120
catcaatccc acaccaaggg aaccactgtc atagaaaatg tgtcttcacg ctccacgttc	180
tccacgcaa acaacgccc tgacacacca gnnnnnnnnnn nnnnnnnnnn nnnnacgcct	240
ctgtgtatgt gtgcgcctgt gggattgcaa gagaattatg tctgtgttag gagagtcttc	300
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<210> 555

<211> 444

<212> DNA

<213> homo sapiens

<400> 555

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gtagctgaac acgtaagtag ttccaaccaa gaagagccaa aagctcaagg taaagttgaa	180
gaaatgccta tgcaaagggg aggcagcctt caggaagaaa ataaagtgac tcagaaattt	240
cctagtctca gccagctttg tagggacacg tttttcaggc aggaaactgt cagcccatta	300
ctaagccgga cagaattctg tacagctcct cttaccaag acctgagtaa taccttgccc	360
ttgaattctc caaggtggcc aagaaggtgt cttcatgtac ctgttgctct aggcattctc	420
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<210> 556

<211> 212

<212> DNA

<213> homo sapiens

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<222> (25) .. (77)

<223> n=unknown

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tcccatggcc atggatcgca cagaccaca ccaggcagtg tgtgcctcag aggaacgccc	180
tctaacattt ccttcggggc tgtggcttct gg	212

<210> 557

<211> 519

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (114)..(352)

<223> n=unknown

<400> 557

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gccggagtgt cagggtcaga gtggtgccac gtgagcagga cttgagcagc cacnnnnnnnn      120
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      180
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      240
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn      300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nngtaaacc      360
tgtgccttgt gttattatcc ccctttacag atgctgccac tgaggtcaca gagttagtaa      420
ccaaggcag agccagtacg tggcagggtt ggttttaaata tgagtcaggc tggctctggg      480
ctgctgatta catttccctt ttcactttgg ccactagga      519
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<210> 558

<211> 576

<212> DNA

<213> homo sapiens

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<221> misc_feature

<222> (71)..(71)

<223> n=unknown

<400> 558

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gggtcactgg gaggcaacag tgtggtctca ggggtgctggg cgggcccgtg agggccatcg      180
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aatcatccat cagcccatcc agagccatcc tgttccaaac tgcatttgag ggaaaactca      420
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cgaggtgtat tcaacatcgc aagcagcaaa aacataaaaag aaaaggtgaa agggccacca 480
aacaaggaca aggaaaaacc aagagccagg aagtgggcgt atgtgtggat ctaagcttcc 540
tagtggccaa agtgaaaaag ggaaatgtaa ttcagc 576

<210> 559

<211> 496

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (323)..(393)

<223> n=unknown

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aagagagaag ggatgatttt ctctgcccgc cgggtgtttg tgtgtttata atgcacaact 180
cgcaaatata aattgcacat gcagaaggca cagaccccggt agcgcatgcc aacttgcagg 240
gactcggttt aatcttgtct catgaatttc cagatggccc actctcttcc atatcacaag 300
gacataaaca ctcttctttt canccccacc tccccagggc cctggaggag acccccaccc 360
tgcaatccac accccatcct ctgctgcaga agctatggtc tgtgtggtga cagccagatt 420
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ataaatgtgt tttgca 496

<210> 560

<211> 456

<212> DNA

<213> homo sapiens

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aggtggggct gaaagaagga gtgtttatgt ccttgtgata tggaagagag tgggccatct	180
ggaaattcat gagacaagat taaaccgagt ccctgcaagt tggcatgcgc tacgggggtct	240
gtgccttctg catgtgcaat ttatatattgc gagttgtgca ttataaacac acaaacaccg	300
gcgggcagga gaaaatcatt ccttctctct tcagatgctc ccgcagtctt tcccttgggc	360
tagtccatgc ccaaggccct catggccttt ttggcattca aaaagttctt ctttttctg	420
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<210> 561

<211> 499

<212> DNA

<213> homo sapiens

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tggactgcag actactcagt caactagaaa cgtcacagat atggccaggc aagcatcaag	180
gagtttccca tctatgtta gggcacatgg aatatttgca cagatagcc taagcatata	240
cgagatgaaa aaaatgtaga acaattatat aaacataact atagctatgg gtggctgcat	300
agatgggcag atgggctggg agagaacaag aaagaagagg aatatagcac gcaaaagata	360
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tttcattcgg tagaacaat gaatgagaaa catgaattca ataaacaaag caagatggta	480
ataaaaagcc aagtgcgat	499

<210> 562

<211> 457

<212> DNA

<213> homo sapiens

<400> 562	
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tcttgttctc taccagccca tctgcccatt tatgcagcca cccatagcta tagttatgtt	180

tatataattg ttctacattt ttttcatctc gtatatgctt aggcgtatct gtgcaaatat	240
tccatgtgcc ctaacatagg atgggaaact ccttgatgct tgccctggcca tatctgtgac	300
gtttctagtt gactgagtag tctgcagtcc acccactttt ctctagccag atggaatgac	360
agagggctag gaggtctcac ctgaggcacc acaggctttg tttgaggccc agccctctct	420
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<210> 563

<211> 419

<212> DNA

<213> homo sapiens

<220>

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<222> (393)..(417)

<223> n=unknown

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tggttattat agtttttgag aaatgatttg acccatggta catctgaatt cttataggag	180
acaactatag taactacgtt ttagagtgca agttcttaat gtgttgatat tttaatagtt	240
gccaaactaa actctgtatg cgtttaccta tttaattgtc actggcacc ccaatcaatt	300
acctcagtgt cgcacagctt tatttacaac aaaaatggga tgaggagtgg attattgctc	360
caagatactg aaggaccatg agaaggtata tcnagagagg gacattattt cccacacnaa	419

<210> 564

<211> 318

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (252) .. (252)

<223> n=unknown

<400> 564

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ataggaaagg cctgtctcct gtgccttttt aactgcccct gctctgggca gagctcttca 120
gtcactcctg cccacctggc gcacgtggga agtcctggat gggagttaat gcagtgggct 180
tcagaactgc agttctgggt ggcgggtggg tggatgggtt cactgtcacg ctctgtgtgc 240
actgcccct angcaaaact cacatcagac tcttgtttcc ttttgtaaaa aagttagggtg 300
tgttctgaga cactgaca 318
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<210> 565

<211> 391

<212> DNA

<213> homo sapiens

<400> 565

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ctgataagaa tactcacttt atcccagaga tcttcaaact cttcttgtcc aaaagaccca 60
tagactgccc aaaaaaaagg aaggctgcag ttgagtcaaa tcatgtcagt gtctcagaaa 120
cacacctaac tttttacaaa aggaaacaag agtctgatgt gagtttgcct agggggcagt 180
gcacacagag cgtgacagtg aacccatcca cccaccgcc acccagaact gcagttctga 240
agcccactgc attaaactccc atccaggact tcccacggct gcgccagggtg ggcaggagtg 300
actgaagagc tctgcccaga gcaggggcag ttaaaaaggc acaggagaca ggcctttcct 360
atgcatctgt gaaacctcct cttctcttct a 391
```

<210> 566

<211> 528

<212> DNA

<213> homo sapiens

<400> 566

```
gctcctgggc tctgccgagg gttaggtaaa gaacaggact caggagctc aacgtcagac 60
ctgtaacctc ttctctctgg tgataaccag aggcctctta gtcagagatt ccttctgatt 120
```



```

aaaggctcgct tatcactcag atgacagccc agctctgttt ggtcatttcg ctcagtgatt      180
tgtgctcctg ctccctttctc ggtgatgggt ctgagccctg agctccagca gtgcattgtg      240
ggtaattttg cttccaggta cacaatgacc aaatcctcag ctgtcctctt catcttgatc      300
ttctctctga tcttcaagct ggaggagctg gtgaggcccc agcgtctctt gtgtccttcc      360
tgccccaca gatgctaaga ataaagtggg agtctgagca gtggcttgtc ctgctgtgtg      420
acagaggaga caagcccagt ccagggtggca gtagatccct ttctgagaag ggacctagac      480
atgggcaata ctcagaatat ttagaaacca gtgtggcagg gtaatgac                      528

```

<210> 567

<211> 480

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (250)..(250)

<223> n=unknown

<220>

<221> misc_feature

<222> (364)..(364)

<223> n=unknown

<400> 567

```

catgcatgta gtttatatta tgtgcggaat aaacagaatt caatacgata ttttcttaca      60
attcttattt gacatgaata agagcttttg aaaatactag acagaaacag gtccagaatt      120
tggggatgtt tagaccttg aaaatacatg aaaatgttga gatatatagt tctgtatgtg      180
tatatgaaga tgtagatgcy catatacaca catacatagc tgtatatgtg tgagtgtgtg      240
tatatataan attaaaagggt gaatgaggta aatatatgaa ggggaaattc agccttgaac      300
ttcccttggg tcacagagat ggatcctctg agctgtgggg tgttagttag tgtgtatgcy      360
taanatgtct gcatctgcct ggtctgtctg ggtcagagta tgtccatgaa ctttacgagc      420
gttcagttca ataccactca gtgcagaatc cgcgttctctg ttttacagcc cagcagccgc      480

```

<210> 568

<211> 577

<212> DNA

<213> homo sapiens

<400> 568

```
gcaaaagcaa acagtttctg atatacatgc catactgcaa agctgtaaac ccgtgttgca      60
tggtgatgtg acaagcacca catttctgga gggatttttt tttctctcct acaagctccc      120
cctccccaag ccgtggctat aattatttca caaaatgcag ttgccattt ctagagacaa      180
acacttcctt ctccctcacc aaaacttcaa gttcaggcca aatattgaat gaaattagaa      240
cttgagaggc aggctttgtt tgtagcatgt tgtttctgct aagagttgcc ccctaccag      300
gctccacccc agtggtcgga ctgaagtgt catgttatgt tttaacagat gggccggctg      360
gcggtctgtg ggctgtaaaa caggaacgcg gattctgcac tgagtggat tgaactgaac      420
gctcgtaaag ttcattggaca tactctgacc cagacagacc aggcagatgc agacatgctt      480
acgcatacac actcactaac accccacagc tcagaggatc catctctgtg acccaaggga      540
agttcaaggc tgaatttccc cttcatatat ttacctc                                577
```

<210> 569

<211> 259

<212> DNA

<213> homo sapiens

<400> 569

```
gggattacca tgtggatata tgtaagaaga gtgttaatag gcagatgaaa cagctagtgc      60
aaagctccta agctggatgc atgcttggtg tgtttgagaa acagcaaaga ggccattgtg      120
actggagtag agtgagcagg gggaagagtg ctgggaaatg aagtcagaga gagaatggtg      180
acctgatacct gtaggggtat ggggtgccatt gtagggactt tgaaatggca agcagaacag      240
aggggtgaca tgaagtgac                                                    259
```

<210> 570

<211> 544

<212> DNA

<213> homo sapiens

<400> 570

```
caattccctt cattatcttt tgctgggccc aaggatattg aagccatcca ttgctttact    60
tgtcttccaa gttcatcagt gcctgcactg caaactcttg taacttctta tgctcctcta    120
ggttacactg aagcttttct agcaactcaa aatatcgga gagtgagtct ctgggccaaa    180
cacggtcata ctgatccatt tccattagcc tgggcagatt ctctgtcaca agagtttccc    240
agtccaaatg acctataggg aggaatgctt cagaaaagca tgtctagatt tgtaaaagct    300
gggtaagagc tggtaaatec tatggtgtgg gtggaaaggt ggagtggaaa gaggtaacag    360
gaagcaagga gggaaagggg gcatcagcaa gaaaccactt ttacaaatga gcaaagaggc    420
cacggccaca cttacccaaa gcgaagaaga agtacagggg aaattaagaa gcaaaaagaa    480
agtaattaag accagaaaat tggaaaggag atatagtagg agagctcctg ttaagactaa    540
gatg                                                                    544
```

<210> 571

<211> 513

<212> DNA

<213> homo sapiens

<400> 571

```
ctcagctgct gtcttgggat tgatacggag aatagtcacc agacgacggg gctgagagag    60
ggatgcattt ggggtggcag aatgactcct gattttatgc atttttataa gctgaataag    120
aatggaagga aaactaaagg aagcttcaac tccacgagat ggttttatgg gtgctttaga    180
gcctttaaaa ataataagaa taaaaatcag ctgtctccga atattaaagg tgtctctctg    240
gttccgaaag gtcagccacc ctggcttcca aatcaaagcc aacggccagg tgcccacaca    300
ggcccgtagc ttgagcctcc tgccaaaagg tttcttagtg tgtttttatg tctccctgac    360
atggaagcag cagggatggt tccccagccc ctaaaacctc tgcacattgt gtcacccagc    420
agagggatgat gattcaggag gagtcagaaa taaagaaagg aaggagtgtg cagccctcgc    480
catggaaagc cacacagccg ttcacatctg ggt                                                                    513
```

<210> 572

<211> 79

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (19) .. (79)

<223> n=unknown

<400> 572

atatgagatt tatcaaagna gnatcncaga agcaatccaa ttagcctatt tgtcaaataca 60

ttgcnatngn acnnaacgn 79

<210> 573

<211> 288

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (233) .. (233)

<223> n=unknown

<400> 573

gccagtcattg gcacagtggg gtgaagggaag agcagtttca ggcacccaaa acctgacccc 60

cacgacctgt tttccacctg aagagccacc cattccatcc aaacccttgg caaaagtctg 120

ctaacagaga gaaccggcca gtgtgctggc cagtcgcat catgcctgtc tttaccctct 180

aagctgaagc tgctcatcaa cggtagatg gcaaaaaggt ggggtccagaa gangggaaaa 240

gaagggagtc tgtgaaaaca aaatgctgaa gaatctgcat caaataaa 288

<210> 574

<211> 282

<212> DNA

<213> homo sapiens

<400> 574

```
agattcttca gcattttggt ttcacagact cccttctttt cccctcttct ggacccacct. 60
ttttgccatc tcaccgttga tgagcagctt cagcttagag ggtaaagaca ggcattgatcg 120
cgactggcca gcacactggc cggttctctc tgtagcaga cttttgcaa gggtttggat 180
ggaatgggtg gctcttcagg tggaaaacag gtcgtggggg tcaggttttg ggtgcctgaa 240
actgctcttc cttcactcca ctgtgccatg actggcctcg ag 282
```

<210> 575

<211> 360

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (288)..(303)

<223> n=unknown

<400> 575

```
tcctaatatg cctagattta aagctgattt aatttatgga aaaatcaccc ttcagacttt 60
gcttttcttt ttcaaattct ctaatggtag tatgatatag catagtagaa ggagatttgg 120
cctgggagtt tggacaccaa agttctagct gcagctttgc ttccaatgtg accttgaaca 180
agtcctttta cctctgggct tcagatttat tgcttataaa gtgaagagat tggagtagtg 240
cctgaaattg catccagctt tagaacggac tcaatgacct tcttctantt gtacaaggct 300
aanatgcctg gaacagaatc cttctgcatt ggtcttgtac cacatttttc cctggggttg 360
```

<210> 576

<211> 338

<212> DNA

<213> homo sapiens

<400> 576
tacaagaaca atgcagaagg attctgttcc aggcagttta gccttgtaca agtagaagaa 60
ggtcattgag tccgttctaa agctggatgc aatttcaggc actactccaa tctcttcact 120
ttataagcaa taaatctgaa gcccagaggt taaaggactt gttcaaggtc acattggaag 180
caaagctgca gctagaactt tgggtgtccaa actcccaggc caaatctcct tctactatgc 240
tatatcatat taccattagg agatttgaaa aagaaaagca aagtctgaag ggtgattttt 300
ccataaatta aatcagcttt aaatctaggc atatttgg 338

<210> 577

<211> 359

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (112)..(356)

<223> n=unknown

<400> 577
gggagttttc tgtttgtaac aggtgggagt ggaccagttt ccctgttagc ctgcaacaac 60
aatcccaatg gttgaaagac ccccaaacca gcagggagag tggttctgtt tngacaaaaa 120
agaaatagaa atatatactt gngtcagcaa tgcaagaccc cctgtngttg ccaggaatca 180
gnatgcatat tattttctaac ataagttttt ctcagatgnt ttgcactttg ttgtccagtg 240
tctttttaaa aatgntanac tataatttgc atatcttggg caagtttgta gatacaagaa 300
gtgttttggg tataanctgt ggaccatgaa aaatgcaagt gcaatcttna tctganttg 359

<210> 578

<211> 267

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (162)..(249)

<223> n=unknown

<400> 578

```
aggttttact gtgaaaagca tgctcatcat acatcagcga actcataccg gagagaagcc      60
ctacacatgc agtgaatgtg ggaaaggctt ccccttgaag agtcggctga ttgtacatca    120
gcgaactcat actgggagag aaaccttaca ggtgcagtga antgtgggaa aagtttcatt    180
gtgaatagcg gactgatgtt acatcagcgg aactcatact gggagaggaa accgtacann    240
tgnaatgant gtggaaaaag ttttgcc                                     267
```

<210> 579

<211> 483

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (162)..(483)

<223> n=unknown

<400> 579

```
aaatgaaagg ttacccccaa tccacagact ctctctcaga tgagtaattt tctatacatt      60
ggtacatcaa agaattcaga gcctgaattc atgttgaagc ctttctgaca ttgatagcat    120
tcacccctagt gaataacact ggattttgaa atatgatttt tnatactcag tanacatgta    180
gaaaatctat actgtgaaat ctctgatgtt gtacaaggna gattttcttc ccaaaggcat    240
gaacatgtcc antgcattgt cagggtttgt ttccattatg agttcgctga tgtacaatga    300
gatttcnctt tgaggagaag gcttttctac attcactgca taaaagggt ttctctcctg    360
tatgagttcg ntgatgaaca attagacggn tcttcatagt gaagccttta cnncattcat    420
tanatccata aggnnnttct ccagtatgan cttgnntatg taaagcaagc tctggctcctt    480
ggn                                                         483
```

<210> 580
 <211> 300
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (145)..(263)
 <223> n=unknown

<400> 580
 agccgccacc aagccaggtg tctgggggtct cagtgtcctg gatgactcca tctgcaagac 60
 caaggcagagt ttctccaggg ccacgaggca gcgcctggct ccggcagctg ggcacgtcca 120
 gggcagagggc tgtgcttctg gattngggcg tcttcacat gcccatccc aggcgtctcc 180
 cccaggcctt ccttctggag agacacctta ttcgtnccctg tctcttaaag cctcaagttt 240
 gattgaagaa gcagaaagtt ggnatagaca cctttgagca ttcaagctct cgccgggcct 300

<210> 581
 <211> 245
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (73)..(232)
 <223> n=unknown

<400> 581
 aaacctcagc cccaaacact aaagtggcaa cagattggta gggagtccctg gtgcatggaa 60
 gaagcaacag tanacctttg ggggaaatac ttttgaacac agaccctca ggattcctac 120
 agattaagtt tagacagata agaacttaat caaaaattac caaacacatg ngaaaataaa 180
 ccanttgact gacaggaaga nggttttnat gtggttagtn gggagaatag anaaggctgc 240

tgctt

245

<210> 582

<211> 564

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (411) .. (491)

<223> n=unknown

<400> 582

ttagggaatc ttcgccacac taaaaattta atacagctaa atttgactat tttttttcaa	60
cttttgcat ttcagttttt ataaagatgg tctccttcat ccatagattg tcagtgtaat	120
ctcttagatt tcttccaaat atttccatga cttaattttt taccctctaaa tttttaatcc	180
tgactcattt gaatttactc ctgaatatga tgtaagagaa gagtccaatt taagttccag	240
actaatggcc agttgtatga ataccattag taactaatga atttaaatac tcttattatc	300
acccccaaaa tatgcaaata tcatatatgc aaatatcata atttactagt agagtatgtt	360
gcattgatct acttattttat tacatgctca actcatttta atttgattat ngagggttta	420
taacatgttt ggtaagatat attttataat tttctttgtn atttgttatt ttcagacatt	480
tctttnttt ntaaatagta gaagcagcag ccttctctat tctccccact aaccacatca	540
aaaccctctt cctgtcagtc aagt	564

<210> 583

<211> 353

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (274)..(341)

<223> n=unknown

<400> 583

```
gaaattagta agggagggcc gagaagacac ggctgctcag aagctgttcg ctgtttgagg      60
gatttcccg agagcctgtt aaaagatgcg aagtgggtggg tgtaccgctc agccaccttt      120
aaaccggctc tgtgcgttct ggctctggaa agcaagtctc caggcatttg ggctcagaat      180
tgctggggccc cgagtttggg cgggggtggt ccttctgggg gtcaggcctt gagcagcttg      240
cactggtggc aggtttggga gcagttgagg ggcntnctgn tgtgncnttt tgaggggggnn      300
accnngaag ttgcannnn gaagggagcn tntttgcccc ngagttttga aag              353
```

<210> 584

<211> 537

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (333)..(333)

<223> n=unknown

<400> 584

```
ccagcaatcc acttgctttg agacaagacc gcccttggca gatcaattcc tcatggtatt      60
tttcaccttg cagctgagag cccgaggcga tctgagagcc cctgccacag cccgggacca      120
ccctggccct aaaacctccc tagggccacc accctgacct tggcagctca gacagatcct      180
attccaaccc cgcagccata tcctccctcg cagaccagg tccctgaga agagggttaa      240
tcaatcaaga tgccactgca ctgccactct ttggagctac tggaagggtg accagtttgc      300
ataaatggac tccagtttgc ataattggagg tcnttctaaa cgcattctct tcctctgccc      360
caagttccca gcttccctac tcctcagccc cagactgact gagggccaaag gccccggagc      420
agctgtcctg acgaattcca aggatatgag tccaccggct ccaggtctac ccctacccca      480
ggcattgcac gaatggagga gggagggact aagccactgc tccttccct ttccgag          537
```

<210> 585
 <211> 432
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (310)..(310)
 <223> n=unknown

<220>
 <221> misc_feature
 <222> (427)..(427)
 <223> n=unknown

<400> 585
 taaacttaag gctaattgttt agaagctttt gctaattgaga ggaccatttg ctaaatcggt 60
 ataagtgcta cacatttggg tatctccatc ccaacatacc tcttattgcc attccccaaa 120
 gcagacaccg tctcctccct ccctcaagga cctctgagct tgcactccaa ttcctctccc 180
 aactcacct ttctcctttc tgttctcttt gggatccagg tttatttgag gagataggaa 240
 aagctctga tccagcaggt tttattctta aatttgtaac aaagtaaatac acagaacctc 300
 caccagcan caggcctctg gttctctccc tccttcccag gtataggccg gctttcagaa 360
 accctgcacc acatagaccc tgggcctgaa ttgctgtgag tataatgact ctgctcgtaa 420
 tttgtgnctt ct 432

<210> 586
 <211> 397
 <212> DNA
 <213> homo sapiens

<220>

<221> misc_feature

<222> (304)..(304)

<223> n=unknown

<400> 586

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taaatcccg cctggtttct cgtgagcttg aagccagggt gccacactc tgcaaaagaa 60
gaaaaatgcc agtatgagtc cttgaggctc agtggtgttg tgcagtcctt ggacaggaca 120
atgtectcat ttcaagggtt catttttggg ggaaaaaaaaaa ttcctcagga tgcaggatgc 180
cctgcatccc ataatgggta tgccccatt gaaaccagct ctgggagggt gaccaaacta 240
aaaaggaaac agttccaagc agaaggacac aaattacgag cagagtcatt attactcaca 300
gcanttcagg cccagggtct atgtggtgca gggtttctga aagccggcct atacctggga 360
aggaggggaga gaaccagagg cctggatgct ggggtgga 397
```

<210> 587

<211> 375

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (213)..(234)

<223> n=unknown

<400> 587

```
ccctgccttg aggaaggggc aataccacca gcgtgtcttt tatcaggga gatattgctg 60
cagtttgccc gctgcaactt aagagaaaag ctgaggggtc cccagcatc ccttgggggtg 120
ccactgcaaa tactggctgg gcctggagat gacctgggtc ccattcatt cctagggtga 180
aggaggtcat cattaccacc cctgctttca gcnnnnnnnnn nnnnnnnnnn nnnnacaaac 240
tggctgagct gcaaccctga gccggggaat tcagccactc cagacacagc ccctgcccctc 300
cggaagtct cgaggagacct ggctagtctg gctgggagaa gtcacacgtt gattgtcttg 360
gaaagtgaga tggca 375
```

<210> 588
 <211> 554
 <212> DNA
 <213> homo sapiens

<220>
 <221> misc_feature
 <222> (134)..(134)
 <223> n=unknown

<220>
 <221> misc_feature
 <222> (331)..(424)
 <223> n=unknown

<220>
 <221> misc_feature
 <222> (540)..(540)
 <223> n=unknown

<400> 588
 aattcaaaact gaactgggtg tctgtatatt aattctcgca gtcctgggca cacacgaagc 60
 ctcttatgag tgctggcagt ccagcctatg ctcttccaa agcaattctc ctttctact 120
 gccccgtcag ggcncgtgtct gtgctggaat catcattgtc ctcaactgca aaatggaaaa 180
 taaaatgata gtggttcttc cctcccgggg ttgccaagat gattaaataa cataacaact 240
 aagatgtatc cgcccccttc tctctactt gcaaggcatc gatcccttca ttctctgcaa 300
 tcacaccacg tgaagggtgcc atgaagccac nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnntgtc ccaactcatct ttgggtgacc 420
 tcangttcgg accctgaggt ctgaacactg cattaagctc tccagacaga atcaacttcg 480
 gaactagcgc cagagaccac taagtcaatc ccaggtgaca ccatcagcac tcaataaatn 540
 gtagccactg ccgg 554

<210> 589

<211> 308

<212> DNA

<213> homo sapiens

<400> 589

cagaaacaga cagaagtgga cagattgaag acatcttaga aaattgagtg gacaagactt 60

aatgattgac aggatgtgga agaagtggga ggtgtcaagg gtggctgtca gtttctagca 120

tgagtaactg ggtagatgac agaaccattc cacactggat ttctattgtg tgattcccct 180

gttacattac tactgctgct ttcccgtctc ctccatgggc tatttttgcc tagaaccttt 240

catttttttt ccacttattt ctttattttt taatttccca tcttcaattg cccctgataa 300

gtctctac 308

<210> 590

<211> 463

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (23)..(23)

<223> n=unknown

<220>

<221> misc_feature

<222> (241)..(247)

<223> n=unknown

<220>

<221> misc_feature

<222> (414)..(442)

<223> n=unknown

<400> 590

```
tcctatacat taaatatcaa ganatattca taattgatta caagtcaaga tgtaatactg      60
agggaaccat agaatcaaaa taccactca tgatacagta gtgataattc cattccaata      120
atggacacag taacgacttg ttcacaagac acaacaaaac ccatcaaaaa ggccatcact      180
ttaaccaacc tataatacca caatagaaaa tgattctgaa tcataatatg agcagcccca      240
ntaatncat ctttgtctta tcaatttatc aggtcatttt gagactgtag agttacactg      300
tcatagactt ttaagattcc atttccttag ttttatttca aattattatt aatgaatggg      360
gacaagtcac acgagctaaa aatactttta aactgagttc gtttttcata aganaaaaag      420
ggtcnnattt tagtacgang anagcatttc ccaagcaatg agt                        463
```

<210> 591

<211> 408

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (307)..(399)

<223> n=unknown

<400> 591

```
gaatgtataa attctggaaa cattatgtgt tgttcattgc agaagctctg aatcagggag      60
agactgtgga tctggatgcc ttgatggctg atctttgctc tatagagcag gagctcagca      120
gcattgggtc aggaaacagt aagcgtcaaa tcacagaaac gaaagctact cagaaattgc      180
ctgttagccg acatacattg aaacatggca ccttgaaagg attatcttct tcacttaata      240
ggatagctaa accttcccat gccagctact ccttggacga cgtcactgca cagttagaac      300
aggcctnttt gagtatggat gaggctgcnc agcaanngtg tacntagaag actcgnaaac      360
ccnttagnna cnnaantagc acagaagaac cgcggntanc agggcaca                    408
```

<210> 592

<211> 560

<212> DNA

<213> homo sapiens

<400> 592

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tattccttct gtactcttga aacctatctc agaagtatct ttgacaaatt ataaatgtag      180
aagaatttaa gaagttaatt aaaattatth taatataatt tctcctttat ttttaataaca      240
aaataccagg gaaaaagttc catttattht cctcagtaat tggctgccct tgatgtgtca      300
aatccagctc ttgagggcgt gttacttht caatatccaa agagtccatg ctggaggctg      360
cggaagtgat gctggaatgg gaggaattac taatagagtg tacttcagca tcaactactg      420
tgctgtctga cgcggttctt ctgtgctgat tagttactaa gggtttagta tcttctagta      480
cagattgctg agcagcctca tccatactca aagaggcctg ttctaactgt gcagtgcagt      540
cgtccaagga gtagctggca                                     560
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<210> 593

<211> 311

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (60)..(60)

<223> n=unknown

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<222> (293)..(304)

<223> n=unknown

<400> 593

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ccaccaaggg ggcagcgctg tgtacgcccg gctcctcgcc ctggacatgt gtgggggtctg	180
ccttgtcaac acccttgggg cctgcccacat catccactgc accctggcct gcaggccctg	240
gctgcgcccg gctgcacctg tgggctacac tgtgttgctg ggtgtggccg gcnggcgtgc	300
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<210> 594

<211> 396

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (59)..(373)

<223> n=unknown

<400> 594

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gnctgtttgt caggcgggan ctggnagcct gcacaggga agagctgggt tcatccggca	180
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ctgaggctgt nctggccccg actcncnga gcacctncan cccccggagc aggtgcacac	300
ccaggtaagc aggtccaggg gcttgggtng gcagggctag cttttggatc ctgantntca	360
ctactctntc ctnccacgga tgccctggga cctaag	396

<210> 595

<211> 443

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (267)..(267)

<223> n=unknown

<220>

<221> misc_feature

<222> (378)..(440)

<223> n=unknown

<400> 595

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aggtgcagaa atacagcgat ttccagtgcc agctgttgag ccagtgccag caccaggggc 180
agattcccct ccagggacag cgctggagct agaggaagct ccagagccct cctgccgctg 240
ccctgggact gcccaggacc agcccantga ggagctgcct gacttcattg cacctcctgt 300
agagccaccg gccttcagcc ctggagctga aagtgtggct ggagctagag gtggcagaga 360
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ggaagctatt gaggcagaga cca 443
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<210> 596

<211> 503

<212> DNA

<213> homo sapiens

<400> 596

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gtccgcctgt caagaagagg ccatcctggg cagcacatta ggggcaaatt gccagatgc 180
ccagctgagg gcaaacctcc atgcctggag gaggaggtcg cctctgggag caggaggacc 240
tgctggaacc cctgctcaca ggctcctttt cttgctctcc agcacctcct gcaggcaggc 300
aaacagcccc agcagcagta gcagcaggcc cttcagcagc agggctgtgc tctgctgaat 360
gggagaagtc cctctccagt gaggcagagg agccagatt gcaaaccctg gtctctgcct 420
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ccatagttcc actgtgcccc ggactgggag cagtgtggga gtgctggctg gagggtgctg 480
 gccaaccttc tctgccaact cta 503

<210> 597

<211> 440

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (440)..(440)

<223> n=unknown

<400> 597

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 gaggtcgagc agctgccctt cagccaccca ctgttcatca tgttctcatc gggcaccacg 180
 ggcgcaccca agtgcattgt gcattccgct gggggcaccc tcatccagca tctgaaggag 240
 cacctgctgc acggcaacat gaccagcagt gacatcctcc tgtgctacac cacggtcggc 300
 tggatgatgt ggaactggat ggtgtccctt ctggccacag gagcggccat ggtcttgtag 360
 gatgggtcccc cctgggtgcca cgcccaatgt gctctgggac tggttgacag gataggcatc 420
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<210> 598

<211> 160

<212> DNA

<213> homo sapiens

<400> 598

tcatagcact ttccccata tttttataat ccaaaggaa aatgattcaa gaaaggattt 60
 cattgtgctc agttttcaaaa aatataaaaa tggacatcag attagagata caagttcata 120
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<210> 599

<211> 349

<212> DNA

<213> homo sapiens

<400> 599

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gcaccaagag ttaaataaga gtagtgctgt taccagtgaag gaatggcgct acttcagact      180
caagcaaaac tggttttaga ggaaaacaag ttgttgctgg agcagttgga gattcagcaa      240
aggaaagcca aggacagcca ccaggagcgc ctccaagaag tttctaagct gactaaacaa      300
ctaatgctcc tggaggcaaa aaccacggc caggaaaagg actggcgga      349
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<210> 600

<211> 408

<212> DNA

<213> homo sapiens

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<221> misc_feature

<222> (15)..(15)

<223> n=unknown

<220>

<221> misc_feature

<222> (224)..(327)

<223> n=unknown

<400> 600

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agcattagtt gtttagtcag cttagaaact tcttgagggc gtcctgggtg gctgtccttg      180
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gctttccttt gctgaatctc caactgctcc agcaacaact tgtnttcttc taaaancant 240
 tttntcttgag tctnaantcg angcnaatcn tcaactggtaa cagcagaccc ctaattttaac 300
 tcttcgtgca actctccatt tcttcncta ctttcttgga ctgcaccta aacattctca 360
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<210> 601

<211> 290

<212> DNA

<213> homo sapiens

<400> 601
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 tcctggtttc tgagagggac atcttcatcc ctactcccct tggccccaa ccacagtcct 180
 ggtgaagatg tggatgataa tggcgcttg atttccaaat gaagacagct ttattgctta 240
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<210> 602

<211> 375

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (374)..(374)

<223> n=unknown

<400> 602
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 caatagagtt aagcaataaa gctgtcttca tttggaaatc aaggcaccat tatcatccac 180
 atcttcacca ggactgtggt tggggaccaa ggggagtagg gatgaagatg tccctctcag 240
 aaaccaggaa gagccaagcc gcgactcccc gctccccaac ccctctcat tctcctcta 300

ctgcctgtgg ccatcaccgt ggggcctgtg ttagagacag gtggggaaaa gagcccaaga 360
gccgtctgcc tcgng 375

<210> 603

<211> 179

<212> DNA

<213> homo sapiens

<400> 603

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<210> 604

<211> 136

<212> DNA

<213> homo sapiens

<400> 604

ctctcacct catctctctt ccttgtctc agcaacttag ttgcctctc actatctggt 60

ttctccacc aacacaacct tccacacccc ttctggagct ctctgcgaa cagaatgtgg 120

gttgactgat gtgttt 136

<210> 605

<211> 506

<212> DNA

<213> homo sapiens

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tgtgattatg catttttacc taggaaatgc ttatagctgg gcaaaaagtg ttttcagaag 120

gcaatagagg cacggtggag aatgtaattt ttaaaacttt accatgtttt tttagagagc 180

atattcacct tgttctgct gttccatcag tgcaaatgag cactatattt ttcttgacct 240

tgagtttggc ctaagggagc aaaaatcagt attaaacat aatacagga gaaggccaga	300
tgagggcatc ttatTTTTTTT ttcctctccc tgctttatgt taggaccttg atctaaaata	360
agcaaacgag gcctgtgttt attttgaagc tctccagaga ggcctacaac tttaccacgt	420
tcttaattta agtgacctta ctatcagaaa cattcatatt actactattt aacagtactt	480
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<210> 606

<211> 392

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (17)..(17)

<223> n=unknown

<220>

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<222> (333)..(334)

<223> n=unknown

<400> 606

caaaaggtag agccctntat caaccagaa acacctagat cagaacagga atccacattg	60
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ggcagtgcgg gaggaatttc tgagtggcca tcccaaggtc taggtggagg tggggcatgg	180
tatttgagac attccaaaac gaaggcctct gaaggaccct tcagaggtgg ctctggaatg	240
acatgtgtca agctgcttgg acctcggtgct ttaagtgcct acattatcta actgtgctca	300
agaggttctc gactggagga ccacactcaa gcnacttat gccaccatc ccacctctgg	360
ataattttgc ataaaaattg ggattagcct gg	392

<210> 607

<211> 542

<212> DNA

<213> homo sapiens

<400> 607

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cataaaaaag caacaggcct gctgccatgc atgaaacact tctgccaca agagaccaca 180
gcaagacttt aaaaaacaaa acaaacaga acaagaacga acacaacaga gagagatttt 240
aacaaaataa atcttaggtc aacataaacc atcaagcatg tgactgtgat gtatcttatt 300
gggtaaaaga gccactgacc acacaattgc tggatgtgtc tcctatgaaa ccacttaaca 360
gatctggccc ttgcaatcct ttaagtttgt gatggggggt tgtttgtttt aaatttgccc 420
ctcaaaagga agctgcataa agttgacata tagcagatat tccaagcatt ccttacatat 480
taaaaataat tacaagata atattttcaa acaacacaaa accaatctac actacgtaaa 540
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<210> 608

<211> 306

<212> DNA

<213> homo sapiens

<220>

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<222> (10)..(11)

<223> n=unknown

<220>

<221> misc_feature

<222> (124)..(234)

<223> n=unknown

<400> 608

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ctantgatat gtgatagtaa acatctgtcc aaacttagga gaatataaga ngccagtaaa	180
agaggtgggn tccaattaat taaaaacaag ttgtgtaatg ttaaaagttt taanactttg	240
ataatagtct gtgcaatgta aaatagctat taagctttca gtctgatcaa atgaacactt	300
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<210> 609

<211> 501

<212> DNA

<213> homo sapiens

<400> 609

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atatttgaga tgattttctta tgcagaagaa aaaattaact gagcaactat attcagaaaa	180
agacaggttc tggctatgtg tttttaattc atatatataa tctatatgag taagtgtctat	240
catatgcttc ctccgcagcc cttgtgtcag aaacactaca gaaaaaatta tttcagaaac	300
attttacaca tcagatcctg ctaggcaata aagaaatcat tcatttaatt ttgtcctcca	360
agtgaataca ctaggatcaa attatcccta gtagacaagt gttcatttga tcagactgaa	420
agcttaatag ctatttttaca ttgcacagac tattatcaaa gtattaaaac ttttaacatt	480
acacaacttg tttttaatta a	501

<210> 610

<211> 429

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (325)..(426)

<223> n=unknown

<400> 610
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 attttctaag aggatctttt gaaactcttt agtacaatat ttgagtaaaa taaattattg 180
 tggatctttt gaaactctgt gtagtattcg agtaaaataa atatttgaca tttacagtag 240
 ggtacaccct aagttgttta tgaattcctt ataccactgt tatatttaat ttttcagata 300
 aaatatgtat gggaaaatga ctagnгааат tgattctttt ttaaggctca gggacaagat 360
 taagtggact aattgtggaa cccaagctc ctaattgtaa ggtccagagg tggatggnc 420
 cccatnaaa 429

<210> 611

<211> 407

<212> DNA

<213> homo sapiens

<400> 611
 tacaaagttc taaaatttaa agaggatat acaagtatag acatcaaact ttctaaactg 60
 aactaattcg ctttcattgg ttggtcaaaa atatgcaaaa accctaaata ttcacacatt 120
 taatctctga gatttctgac taaataagga gctaccctga aagtacatga catttgtaat 180
 tttatggaga catcactctg aacatacaat tagagcttgg gggtcacaat tagtcactta 240
 tcttgccct gagcctaaaa aagaatcaat ttctctagtc attttcccat acatatttta 300
 tctgaaaaat taaatataac agtgggtataa ggaattcata aacaacttag ggtgtaccct 360
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<210> 612

<211> 279

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (7)..(10)

<223> n=unknown

<400> 612
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gcatccagtg ctcgatcagc atgtcggaac acgaggccaa ctcagagcgg tttgagatgg 180
agacccgggg agttaaccat gtcgaggggg gctggcccaa ggacgtgaac cccctggagc 240
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<210> 613

<211> 575

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (221)..(224)

<223> n=unknown

<220>

<221> misc_feature

<222> (422)..(486)

<223> n=unknown

<400> 613
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atattcaaag tggacagact ttctgttctt gatttgtagg tggacgagga gggctgatca 180
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agtctggttg agggtaaga ggtgggaaag gaaggcacac agggatagcg ccgcagtcga 300
aggctgactt ctaggctaag tcttcttcca cttcttcac cgccttcttc ccccgctgct 360
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ctcggnccttg ctgaccagcg cctccaggtc tacggccagt cctcatcggt ctgctcctca 540
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<210> 614

<211> 229

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (3)..(194)

<223> n=unknown

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<210> 615

<211> 354

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (325)..(341)

<223> n=unknown

<400> 615
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aactccatat gcatttaaaa agtaaggaca ttttcttata caactatatg ccatcatcat	180
ctctaacaaa atcattaaca aattattgat accatctaac agccagtcta tgttcaaatt	240
tccctggtaa atttggttc ttaaccttat catcacataa aaaggggtct cctgttttta	300
aaaaagctat aagtatTTTT taacnccnacc agaggcttna ngcagaattt tttt	354

<210> 616

<211> 540

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (489)..(533)

<223> n=unknown

<400> 616

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gaaagagatg gggatggagt ctgccctgag atcctccaat ttgacctctg gtcgcttctc	180
tgcctcatct ctgctccctt cccctgccag ctcagtgcc a cttttacctg gtacacagct	240
ccttctctca gacctgaag tagtcttcag cctccctacc cagaagatgg ccgtggaaaa	300
cacacaggaa gggccatttc acattgcaaa tgccctcatg aatccagcag gctggtagct	360
taacgtatac agttattagg ccgaaggagg atgcaggtgg gaagctgagg agggttgaat	420
gagtcccta aggatacgta aattagaagc agaaacacag tagaattcag acccaagatt	480
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<210> 617

<211> 417

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (46)..(46)

<223> n=unknown

<400> 617

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agttcctgaa actaaaacag aaaaatgtag gggtcgatag gactatgaaa gttggtatat      180
ttgaacactt catgtgaagt agttgcattt tttatctgat tttatcatgg gaatgaacat      240
tgtatctgtg tgggggactg ttttccctac ctggtactgt aaaagagaag gcatgtaaata      300
cgtcccttca agcaatatta tttggacatg ctaagctgga accagggaga ctgcccaggc      360
ccacacagtg cagagtagaa gctacgggtg tggtaggaca aatctccact tgataac         417
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<210> 618

<211> 575

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (475)..(566)

<223> n=unknown

<400> 618

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atcagttctc cttgccagct atgttcaggg cttccacc aggaaatctt tcccatagcc      180
agtttctgtc tctcttactg agaaacagaa cagttcttcc tagcattttg tgccttgga      240
ttgccatcca taaaccaaga agctcttggt tggtcagttg aaagttgttt atttggcact      300
gtagaatcca gcagtttctc acacagttcc agagtcagtc ctaggggaaa agaaattctc      360
tgcatgcctt gagtagcatg atcctctata aaccatttcc attgtgtcat ggaactcttc      420
tgggcactgc catccccatt agaatgttcc tctgacatca tctgagacag catgnntatt      480
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tcaggatatca gtggggtggc ttcagtaa at gtttcattgc gagtcagtaa atgccctttc 540
 angtggaat ttctctaagt ccaaangtcc cagtg 575

<210> 619

<211> 456

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (271)..(271)

<223> n=unknown

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 ttacctattg tcacaaaata ggcaaggcaa ttgtttatta tgaacctcag aaagctggaa 180
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 attggctgtc catggctttt ctagcctttc naggtgccc tgttggtgctt acctttggct 300
 taagctcaag tgtcattctt tacatctcct tctgttttct gtttatgcat gtcacaaaca 360
 tataactatg tgataagatt ttgatcgctc cagacagctt cacttctcac acagcaagag 420
 cattgctata ccgatcctct tggctgactc cccatc 456

<210> 620

<211> 409

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (314)..(314)

<223> n=unknown

<400> 620
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tcctgaggtt cagactgggt aaaggaagat tggaagtttc cattgtattt ggtaaaggca 120
tgtgaattct aatcaggtca cagggcatca agaggggtct ttaactcttt gggaacataa 180
agtacacttt ttaaataaaaa ttataacttt tcctgggggtg actttgtcat gggtaaattt 240
gggccaaggt taatgggttt agaggttgaa ttacttatgt ttgttttatg taaagtaata 300
tattagggca aganatttga atgaacaaaa taaacaaaag atatgggtct tatcttcaaa 360
gcttgcatth tagttagaaa acaaaatctg cataatgaaa ttatataaa 409

<210> 621

<211> 503

<212> DNA

<213> homo sapiens

<400> 621
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tgtgatttga tcaactcgtt atataatttc attatgcaga ttttgttttc taactaaaat 120
gcaagctttg aagatagaga ccatatcttt tgtttatttt gttcattcaa atctcttgcc 180
ctaatatatt actttacata aaacaaacat aagtaattca acctctaaaa ccattaacct 240
tggcccaaatt ttacccatga caaagtcacc ccaggaaaag ttataatttt atttaaaaag 300
tgtactttat gttcccaaag agttaaagac ccctcttgat gccctgtgac ctgattagaa 360
ttcacatgcc ttaccaaatt acaatggaaa cttccaatct tcctttaacc agtctgaacc 420
tcaggaaaaa taatttcata tttctgtatt ttgatcattt ttaagtctct aatttccact 480
ctgtttaaaa aaaaatactc gag 503

<210> 622

<211> 242

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (10)..(76)

<223> n=unknown

<220>

<221> misc_feature

<222> (184)..(218)

<223> n=unknown

<400> 622

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tgtgggcant gattgngttc tattaagtcg ccaagtctcc agtacctaac accatggcat 120

ggcttccagg tggcactcaa caaatgtagg ttgaatgatg acccggtttg agagtaccca 180

ggtnaagaag tttgggtttt atnttacagg taattggnac cactggaaaa gttttgatca 240

gg 242

<210> 623

<211> 399

<212> DNA

<213> homo sapiens

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<221> misc_feature

<222> (255)..(255)

<223> n=unknown

<400> 623

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cttctgtgac ctatatcctt ggatgctctg acttaattct aaaatagcca gttgacacag 120

cccttcaatc tggcaaacct accattgctt aatagaaatt aataggccaa ttttgattca 180

agaaatacta tgtaaagacc agtattttca gttaactttg aaagaaaatt ttactatatt 240

tgaaaaatat aagcnaagca tatttccaaa gacaaagggt ctggtgggtt ggaaagggaa 300

gaaacaattt gcaaaatcac actctagtat atgaaaagac tgcagatttt agtctactaa 360
aatcctcaat atatttagca aatccccaat acagttttg 399

<210> 624

<211> 374

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (363)..(363)

<223> n=unknown

<400> 624
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aattttgagg aggggaagac tttgagcagt tgcttagctc tgggatctgt cctggtaaaa 180
gccaccaagc ctgccatggt tgggtttgct gacgatattg ggtcagccat attgttacag 240
ctgcttttct gaccctgtgt aatctgtcct cttgtagaag tggggcagcg tgagcaatcc 300
actcttctc ccgctgatcc caccacagtc ttaagggttc aacgccatag tcctcaccta 360
cgnacgagta gaga 374

<210> 625

<211> 381

<212> DNA

<213> homo sapiens

<400> 625
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tgagatctgt tttcctaagg ctgatagcct ttgatcctgt tgattcctaa gccctcaaac 120
acttgtggct acagagtatg ccagggttg gagttaaatg ggccacccta gaacaagaat 180
gagatgactg agaaaaatgg aggcattgct tctcagaaat ggtattgcta ttgacaaagc 240
aggaaaattt atttaaaaca aaggatgtga ataatttggc catccaaaat tgatccagct 300

gagagaggca ctaaggcttc ttaccttctg gagggttttt attctaatta ttccagacga 360
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<210> 626

<211> 256

<212> DNA

<213> homo sapiens

<400> 626
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 ccaaggagct cagggagacc acccacgaga agatccaggc tgccgagtag gggctggtgg 180
 tgctggagga gaagctgacc ctcaaacagc agtatgatga actggaggct gaggtagaca 240
 gcctcaaaca ggagct 256

<210> 627

<211> 322

<212> DNA

<213> homo sapiens

<400> 627
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 acccagggaa gattacagta aaataaaatt ttaggtcaga acaactgctg tcaagggtta 120
 agttcaacta gacagacaat ttagccctgc ccaaacagg gtgactgaaa ggatggctga 180
 gtgatgttcc tgaaggaatg acatggtgtc tgccttggtg gaggattgtg ttatcccaca 240
 taggaaccag acatgagaga aagcaaaaact atgtgtcttg atgagactca cctgggtgaga 300
 ggtactgagc tagtcttcag at 322

<210> 628

<211> 92

<212> DNA

<213> homo sapiens

<400> 628
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gcccaacatg tggcatgaat cagtgtccg gg 92

<210> 629

<211> 449

<212> DNA

<213> homo sapiens

<400> 629
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ccgggcctgg actccttggtg gcttggggaac agacctgtga aagctccac atctcctcgc 120
cagtcatac caactagtca ccaccaacaa ggagatggcg cagcccgtgc ctaatacag 180
caattaactg ttaggggtctt tgtgcaggaa gcacacgata tgctgagaaa aaccagcttt 240
tgtctaagca tgcacctcta tggactaagt tgggtctaag cccagtcac atgcagactg 300
ggaagatgtc tgctaggtaa gtgttgaggg caggtccacc actgactgac tgtggcagac 360
ttggcaacag cagctgtcac ccacagcagt ggcaattccc cgcacctccc ccccgaaac 420
taggacatgt ttggcgatgt ctggagaca 449

<210> 630

<211> 234

<212> DNA

<213> homo sapiens

<400> 630
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agagtttggg tctggggatt gcagaatgtc actgggtgcg ttgaagctga aggcgtgcat 120
ttctctgagt aatgagaagc acccttgagt caccaaggca ctggcatatc aaaaagcggg 180
gccgctgtcc atatcttgac gattgtagac acagttgtag ctgtatagag atga 234

<210> 631

<211> 296

<212> DNA

<213> homo sapiens

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<222> (22)..(288)

<223> n=unknown

<400> 631

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cccacaatga gatnagcata ctctcaaaga tctcggccaa gtcattaata annannctga	180
acagancagg ccaaaggngg ncatnncann nttgcngggg gattcngncc anagcagngn	240
ancctaaggc agccagagtc cnncgagagc cagttnggt gacctggnag ccagaa	296

<210> 632

<211> 396

<212> DNA

<213> homo sapiens

<400> 632

acgactgcaa attgtgtgat gtttaattgt cacagaaaga gatactcggt ttaagcactt	60
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atattggtga aatgccactc attccttttt ctgaggagca aatcttgagt agcaatggga	180
agaaagcctg gcaacagcca ccatttgtct tgtggacctg acatgcttat tcacctagaa	240
aaagaagaaa ttgctaaatg cacactgata cctcttaggt aaccacaggt tttcattttg	300
tgctgaatta ttagtcattt ttcctttatg tttttagagt atgattcaga gaccaattta	360
ttcccaaaga aaattgccat tacatctact aggttt	396

<210> 633

<211> 321

<212> DNA

<213> homo sapiens

<400> 633
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aaaatgacta ataattcagc acaaaatgaa aacctgtggt tacctaagag gtatcagtgt 120
gcatttagca atttcttctt tttctaggtg aataagcatg tcagggtccac aagacaaatg 180
gtggctggtg ccaggctttc ttccattgac tactcaagat ttgctcctca gaaaaaggaa 240
tgagtggcat ttcaccaata tggaaatggt tccaatagag tataaaaatc cattaagcaa 300
ttttccagta cattaggcta a 321

<210> 634

<211> 398

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (378)..(392)

<223> n=unknown

<400> 634
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cccgcggctc tctcctgtc ggtcctgcag ttcttttgtc cccgggtaga gggatcttct 120
gcagaaatag cgctggaagc tagagtgagg cctgagtact gccttggcct aggatggcta 180
gagaattaag tgaaagcaca gccctggatg ccaggtctac agaagaccag atggagcttc 240
tggtcataaa ggtggaggaa gaagaagccg gttttcccag tagcccagat ctgggttctg 300
agggctcccg cgagcgttc cgaggcttcc gctaccgga ggctgcaggc ccccgcaag 360
cgctgagtcg gctccganag ctctgccgac antggctg 398

<210> 635

<211> 492

<212> DNA

<213> homo sapiens

<400> 635

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cacctaacat ggcttggcat acgatatgta tgcaggtttc cttccagaca tttatagtta 120
ttataaaatt acagttttca agttactttc tcatgtgcag ctcagaattt cccacatcct 180
ttataaagaa tgaagctaag agactcgcac tgactttcca ctgttacagg ccttggggtgc 240
aacagacca agtcaagaac cctggtatcc agtcacccat ttagaaggct ctggccacac 300
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aaaacagga agaacatgga ggtaaaagtc ggccccat taccagagg ttcataacca 420
gtggtccatg aactccttcc cacgtagtcc atgaacttga acagggcaaa gctaatttta 480
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<210> 636

<211> 375

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (102)..(102)

<223> n=unknown

<220>

<221> misc_feature

<222> (213)..(213)

<223> n=unknown

<400> 636

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tcattcaata taaatatatt atatcaatct taactttttt antctcttga tatgattaat 120
aatatgtata ttcttacttt tcttctaatt ggcatatgta tccttgtgga cactttgaga 180

gaggtttctt ggactctccc atttatagaa tcnttatact cttttactgt gtgggtccct	240
gcttttaaca gatttctgag gcaaataatat tgtgcttttt cttatgtagg aagaccagcg	300
aaaatagtta ctgagttgtc aattttatca gtagataaga aactttcttt attacagttc	360
agggaagatt ttcca	375

<210> 637

<211> 308

<212> DNA

<213> homo sapiens

<220>

<221> misc_feature

<222> (67)..(184)

<223> n=unknown

<220>

<221> misc_feature

<222> (305)..(308)

<223> n=unknown

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gcacaagcca ntgatattct ctatgtgac aggtttttac aaaaaaatac atagttttca	180
atanataatg cttaatttta caactttgat acagcaatgt catacacctg ttcaacacac	240
tacactctgc atgctagata gtctacgaga agacgaaact ttgccatgca ttttctttcc	300
cccnagn	308

<210> 638

<211> 429

<212> DNA

<213> homo sapiens